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(54) Title: CHLAMYDIA PNEUMONIAE GENOMIC SEQUENCE AND POLYPEPTIDES, FRAGMENTS THEREOF AND USES THEREOF, IN PARTICULAR FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF INFECTION

(57) Abstract

The subject of the invention is the genomic sequence and the nucleotide sequences encoding polypeptides of Chlamydia pneumoniae, such as cellular envelope polypeptides, which are secreted or specific, or which are involved in metabolism, in the replication process or in virulence, polypeptides encoded by such sequences, as well as vectors including the said sequences and cells or animals transformed with these vectors. The invention also relates to transcriptional gene products of the Chlamydia pneumoniae genome, such as, for example, antisense and ribozyme molecules, which can be used to control growth of the microorganism. The invention also relates to methods of detecting these nucleic acids or polypeptides and kits for diagnosing Chlamydia pneumoniae infection. The invention also relates to a method of selecting compounds capable of modulating bacterial infection and a method for the biosynthesis or biodegradation of molecules of interest using the said nucleotide sequences or the said polypeptides. The invention finally comprises, pharmaceutical, in particular vaccine, compositions for the prevention and/or treatment of bacterial, in particular Chlamydia pneumoniae, infections.

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CHLAMYDIA PNEUMONIAE GENOMIC SEQUENCE AND POLYPEPTIDES, FRAGMENTS THEREOF AND USES THEREOF, IN PARTICULAR FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF INFECTION

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The subject of the invention is the genomic sequence and the nucleotide sequences encoding polypeptides of Chlamydia pneumoniae, such as cellular envelope polypeptides, which are secreted or specific, or which are involved in metabolism, in the replication process or in virulence, 10 polypeptides encoded by such sequences, as well as vectors including the said sequences and cells or animals transformed with these vectors. The invention also relates to transcriptional gene products of the Chlamydia pneumoniae genome, such as, for example, antisense and ribozyme molecules, which can be used to control growth of the microorganism. The invention also relates to methods of detecting these nucleic acids or polypeptides and kits for diagnosing Chlamydia pneumoniae infection. 15 The invention also relates to a method of selecting compounds capable of modulating bacterial infection and a method for the biosynthesis or biodegradation of molecules of interest using the said nucleotide sequences or the said polypeptides. The invention finally comprises, pharmaceutical, in particular vaccine, compositions for the prevention and/or treatment of bacterial, in particular Chlamydia pneumoniae, infections.

Comparative analysis of the sequence of the gene encoding the ribosomal 16S RNA has been widely used for the phylogenetic study of prokaryotes. This approach has made it possible to classify the Chlamydiae among the eubacteria, among which they represent a well-isolated group, with, nevertheless, a very weak link with the planctomyces. The Chlamydiae thus exhibit some unique characteristics within the eubacteria, in particular their development cycle and the structure of their 25 membranes. They have a unique two-phase cell cycle: the elementary body, a small extracellular form, attaches to the host and is phagocytosed; in the phagosome, it is converted to the replicative intracellular form, the reticulate body. The Chlamydiae are obligate intracellular bacteria which multiply in eukaryotic cells at the expense of their energy reserves and nucleotide pools; they are responsible for a wide variety of diseases in mammals and birds. The Chlamydiae are the only 30 members of the order Chlamydiales, of the family Chlamydiaceae and of the genus Chlamydia. Within the genus Chlamydia, four species are currently described: Chlamydia trachomatis, Chlamydia psittaci, Chlamydia pneumoniae and Chlamydia pecorum. These bacteria are grouped together and share biological and biochemical properties. Among them, only the first three infect humans, Chlamydia pecorum being a pathogen of ruminants.

The species Chlamydia psittaci infects many animals, in particular birds, and is transmissible to humans. It is responsible for atypical pneumonia, for hepatic and renal dysfunction, for endocarditis and for conjunctivitis.

The species Chlamydia trachomatis is the best characterized. Besides a murine strain, it is divided into two groups which are distinguishable by the nature of the diseases for which they are responsible: trachoma, genital attack and venereal lymphogranulomatosis. There are fifteen human serotypes of Chlamydia trachomatis (A, K) and LGV (L1, L2, L3). Strains A to C are mainly found in eye infections, whereas strains D to K and LGV are essentially responsible for genital entry infections. It should be mentioned that the LGV strains are responsible for systemic diseases. Historically, it was in 1906 that Halberstaeder and Von Provaseck discovered, in trachoma patients, the presence of inclusions in the cytoplasm of the cells derived from conjunctival scrapings. In 1940, Rake and Jones described these same inclusions in certain cells obtained by puncturing the ganglia from a patient suffering from venereal granulomatosis. Characterization of the Chlamydia trachomatis microorganism was only successfully carried out in 1957, after a series of isolations in cell cultures.

It was in 1983 that *Chlamydia pneumoniae* was recognized as a human pathogen (Grayston JT et al., 1986); since then, special attention has been paid to this bacterium and it is estimated (Gaydos CA et al., 1994) that 10% of pneumonias, and 5% of bronchitides and sinusites are 15 - attributable to *Chlamydia pneumoniae* (Aldous MB et al., 1992). More recently, the association of this bacterium with the pathogenesis of asthmatic disease and of cardiovascular impairments is increasingly of interest.

Serological studies have made it possible to observe that Chlamydia pneumoniae infection is common in children between 5 and 16 years of age. Before this age, it is rare to find antibodies; the increase in the number of individuals carrying antibodies is then correlated with age up to 20 years. Accordingly, 50% of adults are carriers of antibodies, it being possible for this prevalence to be as high as 75%. These figures are all the more striking since a first infection induces antibody levels of which the persistence over time is limited to 3 or at most 5 years, which suggests frequent reinfection during the entire lifespan. The annual seroconversion rate is about 8% between 8 and 12 years and about 6% between 12 and 16 years (Haidl et al., 1994). Before the age of 15 years, the seroprevalence of the disease is identical between both sexes. After this age, men are more frequently infected than women; this is true in all regions worldwide where such studies have been carried out.

These infections are geographically highly widespread, as shown by numerous studies carried out throughout the world (Kanamoto Y et al., 1991; Tong CY et al., 1993). Developed countries of the north such as Canada, Denmark and Norway have the lowest infection rates; conversely, the highest prevalence rates are found in the less developed countries of tropical regions where the infection may occur before the age of 5 years.

Humans are the only known reservoir for Chlamydia pneumoniae and it is probable that the infection is caused by direct transmission, respiratory secretions probably being responsible for this low-yield transmission (Aldous et al., 1992). The chain of transmission may also appear to be indirect (Kleemola M et al., 1988), suggesting that the infection is caused by an effective transmission, but also that asymptomatic carriers exist, which could explain the high prevalence of the disease.

Other studies (Mordhorst CH et al., 1992) show that the efficiency of the transmission varies according to the individuals and list cases of infection affecting all or the majority of members of one family or of a group of families. The period of incubation is several weeks, significantly longer in this regard than that of many other respiratory pathogenic agents. Although under conditions of high 5 relative humidity the infectivity of Chlamydia pneumoniae in the open air decreases rapidly, suggesting a direct mode of transmission under these conditions, it is probable that the transmission occurs in some cases indirectly since the microorganism can survive for up to 30 hours in a hostile environment (Falsey et al., 1993).

Clinical manifestations due to Chlamydia pneumoniae are essentially respiratory 10 diseases. Pneumonia and bronchitis are the most frequent because they are clinically patent; since etiological diagnosis is evoked in this case, the infectious agent is identified. The asymptomatic diseases are probably numerous (Grayston JT et al., 1992; Grayston JT et al., 1986; Thom DH et al., 1990). The disease then progresses via bronchitis or pneumonia; fever is absent at the time of examination but is sometimes reported by the patient. The degree of seriousness of the disease is 15 variable and in hospitalized patients, it is common to observe pleural effusion; a generalized infection may also be observed and, in severe cases, anatomicopathological examination shows Chlamydia pneumoniae diseases.

Other syndromes such as sinusitis (Hashiguchi K et al., 1992), purulent otitis media (Ogawa H et al., 1992), or pharyngitis (Huovinen P et al., 1989) have been described, as well as 20 infections with respiratory impairments similar to asthma (Hahn DL et al., 1991). Chlamydia pneumoniae has also been associated with sarcoidosis, with erythema nodosum (Sundelof et al., 1993) and one case of Guillain-Barré syndrome has even been described (Haidl et al., 1992). The involvement of Chlamydia pneumoniae in Reiter's syndrome has also been evaluated (Braun J et al., 1994).

The association of Chlamydia pneumoniae with coronary diseases and with myocardial infarction was first suspected from the observation of the high antibody level in 71% of patients having a heart disease (Shor A et al., 1992; Kuo CC et al., 1993; Puolakkainen M et al., 1993; Thomas GN et al., 1997). Studies carried out in several countries have shown similar results in patients with atheromatous impairments (Shor A et al., 1992; Kuo CC et al., 1993; Puolakkainen M et al., 1993; Grayston JT et al., 1996; Casas-Ciria J et al., 1996; Thomas GN et al., 1997; Jackson LA et al., 1997) and in patients with carotid impairments. Anatomicopathological and microbiological studies have detected Chlamydia pneumoniae in the vessels. The electron microscope has made it possible to visualize the bacterium (Ladany S et al., 1989), which has in fact been demonstrated by other techniques such as PCR (Campbell LA et al., 1992; Kuo CC et al., 1993; Kuo CC et al., 1988). It 35 also appears that the bacterium is more frequently found in old atheromatous lesions. Other studies carried out on young subjects from 15 to 35 years have given the opportunity to study the coronary arteries of people without atherosclerosis, this observation not being possible in older subjects (the

onset of the atheromatous disease is early). In these young subjects, the PCR studies did not find Chlamydia pneumoniae in subjects free of atheromatous disease, but revealed the presence of Chlamydia pneumoniae in two of the eleven subjects who showed early lesions and in six of the seven subjects who developed atheroma plaques. These studies therefore show that the atheroma plaque is very strongly correlated with the presence of Chlamydia pneumoniae, but the role played by the bacterium in vascular pathology is not yet defined.

The data relating to controlled clinical studies analysing the effect of treatments in Chlamydia pneumoniae infections are limited in number. Unlike penicillin, ampicillin or the sulphamides, erythromycin, tetracycline or doxycycline show an antibiotic activity in vitro against 10 Chlamydia pneumoniae. However, a treatment at high doses should be continued for several weeks in order to avoid a recurrence of the infection. Accordingly, the use of two new macrolides, clarithromycin and azithromycin, whose diffusion, bioavailability and half-life allow shorter and better tolerated cures, is nowadays preferred. In the absence of definitive proof based on the results of clinical studies, an effective, without recurrences, and well-tolerated treatment of Chlamydia pneumoniae infections therefore remains desirable.

An even more important need up until now relates to a specific and sensitive diagnosis, which can be carried out conveniently and rapidly, allowing early screening for the infection. Methods based on *Chlamydia pneumoniae* culture are slow and require a considerable know-how because of the difficulty involved in the collection, preservation and storage of the strain under appropriate conditions. Methods based on antigen detection (EIA, DFA) or on nucleic acid amplification (PCR) provide tests which are more suitable for laboratory practice. A reliable, sensitive and convenient test, which allows distinction between serogroups and a fortiori between *Chlamydia pneumoniae* species is therefore highly desirable.

This is all the more important since the symptoms of *Chlamydia pneumoniae* infection appear slowly, since all the pathologies associated with these infections have not yet been identified, and since, as has been mentioned above, an association is suspected between these infections and serious chronic infections, asthma or atherosclerosis.

No vaccine is yet available against *Chlamydia pneumoniae*: this is due to the labile nature of the antigens specific to the strain, which has so far prevented their specific identification.

Although the number of studies and of animal models developed is high, the antigens used have not induced sufficient protective immunity to lead to the development of human vaccines. In the case of *Chlamydia pneumoniae*, the role of the immune defense in the physiology and pathology of the disease should probably be understood in order to develop satisfactory vaccines.

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More detailed information relating to the biology of these strains, their interactions with their hosts, the associated phenomena of infectivity and those of escaping the immune defenses of the host in particular, and finally their involvement in the development of the these associated pathologies, will allow a better understanding of these mechanisms. In the light of the preceding text which shows

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in particular the limitations of the means of controlling *Chlamydia pneumoniae* infection, it is therefore at present essential, on the one hand, to develop molecular tools, in particular from a better genetic knowledge of *Chlamydia pneumoniae*, but also to develop new preventive and therapeutic treatments, new diagnostic methods and new vaccine strategies which are specific, effective and tolerated. This is precisely the object of the present invention.

The subject of the present invention is the nucleotide sequence having the sequence SEQ ID No. 1 of the *Chlamydia pneumoniae* genome. However, the invention is not limited to SEQ ID No. 1, but encompasses genomes and nucleotides encoding polypeptides of strain variants, polymorphisms, allelic variants, and mutants.

Thus, the subject of the present invention encompasses nucleotide sequences characterized in that they are chosen from:

- a) the nucleotide sequence of SEQ ID No. 1, a nucleotide sequence exhibiting at least 99.9% identity with the sequence SEQ ID No. 1, the nucleotide sequence of the genomic DNA contained within ATCC Deposit No. ____, the nucleotide sequence of a clone insert within ATCC Deposit No. ____;
- b) a nucleotide sequence homologous to the sequence SEQ ID No. 1;
- c) a polynucleotide sequence that hybridizes to the nucleotide sequence of a) under conditions of high or intermediate stringency as described below:
- (i) By way of example and not limitation, procedures using conditions of high stringency are 20 as follows: Prehybridization of filters containing DNA is carried out for 8 h to overnight at 65EC in buffer composed of 6X SSC, 50 mM Tris-HCl (pH 7.5), 1 mM EDTA, 0.02% PVP, 0.02% Ficoll, 0.02% BSA, and 500 µg/ml denatured salmon sperm DNA. Filters are hybridized for 48 h at 65EC, the preferred hybridization temperature, in prehybridization mixture containing 100 µg/ml denatured salmon sperm DNA and 5-20 X 10⁶ cpm of ³²P-labeled probe. Alternatively, the hybridization step 25 can be performed at 65EC in the presence of SSC buffer, 1 x SSC corresponding to 0.15M NaCl and 0.05 M Na citrate. Subsequently, filter washes can be done at 37EC for 1 h in a solution containing 2X SSC, 0.01% PVP, 0.01% Ficoll, and 0.01% BSA, followed by a wash in 0.1X SSC at 50EC for 45 min. Alternatively, filter washes can be performed in a solution containing 2 x SSC and 0.1% SDS, or 0.5 x SSC and 0.1% SDS, or 0.1 x SSC and 0.1% SDS at 68EC for 15 minute intervals. Following 30 the wash steps, the hybridized probes are detectable by autoradiography. Other conditions of high stringency which may be used are well known in the art and as cited in Sambrook et al., 1989, Molecular Cloning, A Laboratory Manual, Second Edition, Cold Spring Harbor Press, N.Y., pp. 9.47-9.57; and Ausubel et al., 1989, Current Protocols in Molecular Biology, Green Publishing Associates and Wiley Interscience, N.Y. are incorporated herein in their entirety.
 - (ii) By way of example and not limitation, procedures using conditions of intermediate stringency are as follows: Filters containing DNA are prehybridized, and then hybridized at a

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temperature of 60EC in the presence of a 5 x SSC buffer and labeled probe. Subsequently, filters washes are performed in a solution containing 2x SSC at 50EC and the hybridized probes are detectable by autoradiography. Other conditions of intermediate stringency which may be used are well known in the art and as cited in Sambrook et al., 1989, Molecular Cloning, A Laboratory Manual, Second Edition, Cold Spring Harbor Press, N.Y., pp. 9.47-9.57; and Ausubel et al., 1989, Current Protocols in Molecular Biology, Green Publishing Associates and Wiley Interscience, N.Y. are incorporated herein in their entirety.

- d) a nucleotide sequence complementary to the sequence SEQ ID No. 1 or complementary to a nucleotide sequence as defined in a), b) or c) and a nucleotide sequence of their corresponding RNA;
- e) a nucleotide sequence of a representative fragment of the sequence SEQ ID No. 1, or of a representative fragment of the nucleotide sequence as defined in a), b), c) or d);
- f) a nucleotide sequence comprising a sequence as defined in a), b), c), d) or e);
- g) a nucleotide sequence capable of being obtained from a nucleotide sequence as defined in a), b), c), d), e) or f); and
- h) a modified nucleotide sequence of a nucleotide sequence as defined in a), b), c), d), e), f) or g).

Nucleotide sequence, polynucleotide or nucleic acid are understood to mean, according to the present invention, either a double-stranded DNA, a single-stranded DNA or products of transcription of the said DNAs.

It should be understood that the present invention does not relate to the genomic nucleotide sequences of *Chlamydia pneumoniae* taken in their natural environment, that is to say in the natural state. They are sequences which may have been isolated, purified or partially purified, by separation methods such as, for example, ion-exchange chromatography, molecular size exclusion chromatography or affinity chromatography, or alternatively fractionation techniques based on solubility in various solvents, or by genetic engineering methods such as amplification, cloning or subcloning, it being possible for the sequences of the invention to be carried by vectors.

The nucleotide sequence SEQ ID No. 1 was obtained by sequencing the Chlamydia pneumoniae genome by the method of directed sequencing after fluorescent automated sequencing of the inserts of clones and assembling of these sequences of nucleotide fragments (inserts) by means of softwares (cf. Examples). In spite of the high precision of the sequence SEQ ID No. 1, it is possible that it does not perfectly, 100% represent the nucleotide sequence of the Chlamydia pneumoniae genome and that a few rare sequencing errors or uncertainties still remain in the sequence SEQ ID No. 1. In the present invention, the presence of an uncertainty for an amino acid is designated by "Xaa" and that for a nucleotide is designated by "N" in the sequence listing below. These few rare errors or uncertainties could be easily detected and corrected by persons skilled in the art using the entire chromosome and/or its representative fragments according to the invention and standard

amplification, cloning and sequencing methods, it being possible for the sequences obtained to be easily compared, in particular by means of a computer software and using computer-readable media for recording the sequences according to the invention as described, for example, below. After correcting these possible rare errors or uncertainties, the corrected nucleotide sequence obtained would still exhibit at least 99.9% identity with the sequence SEQ ID No. 1. Such rare sequencing uncertainties are not present within the DNA contained within ATCC Deposit No. __ or ___, and whatever rare sequence uncertainties that exist within SEQ ID No. 1 can routinely be corrected utilizing the DNA of the ATCC deposits.

Homologous nucleotide sequence for the purposes of the present invention is understood 10 to mean a nucleotide sequence having a percentage identity with the bases of the nucleotide sequence SEO ID No. 1 of at least 80%, preferably 90% and 95%, this percentage being purely statistical and it being possible for the differences between the two nucleotide sequences to be distributed randomly and over their entire length. The said homologous sequences exhibiting a percentage identity with the bases of the nucleotide sequence SEQ ID No. 1 of at least 80%, preferably 90% and 95%, may 15 comprise, for example, the sequences corresponding to the genomic sequence or to the sequences of its representative fragments of a bacterium belonging to the Chlamydia family, including the species Chlamydia trachomatis, Chlamydia psittaci and Chlamydia pecorum mentioned above, as well as the sequences corresponding to the genomic sequence or to the sequences of its representative fragments of a bacterium belonging to the variants of the species Chlamydia pneumoniae. In the present 20 invention, the terms family and genus are mutually interchangeable, the terms variant, serotype, strain and subspecies are also mutually interchangeable. These homologous sequences may thus correspond to variations linked to mutations within the same species or between species and may correspond in particular to truncations, substitutions, deletions and/or additions of at least one nucleotide. The said homologous sequences may also correspond to variations linked to the degeneracy of the genetic code 25 or to a bias in the genetic code which is specific to the family, to the species or to the variant and which are likely to be present in Chlamydia.

Protein and/or nucleic acid sequence homologies may be evaluated using any of the variety of sequence comparison algorithms and programs known in the art. Such algorithms and programs include, but are by no means limited to, TBLASTN, BLASTP, FASTA, TFASTA, and CLUSTALW (Pearson and Lipman, 1988, Proc. Natl. Acad. Sci. USA 85(8):2444-2448; Altschul et al., 1990, J. Mol. Biol. 215(3):403-410; Thompson et al., 1994, Nucleic Acids Res. 22(2):4673-4680; Higgins et al., 1996, Methods Enzymol. 266:383-402; Altschul et al., 1990, J. Mol. Biol. 215(3):403-410; Altschul et al., 1993, Nature Genetics 3:266-272).

In a particularly preferred embodiment, protein and nucleic acid sequence homologies are evaluated using the Basic Local Alignment Search Tool ("BLAST") which is well known in the art (see, e.g., Karlin and Altschul, 1990, Proc. Natl. Acad. Sci. USA 87:2267-2268; Altschul et al., 1990, J. Mol. Biol. 215:403-410; Altschul et al., 1993, Nature Genetics 3:266-272; Altschul et al., 1997,

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Nuc. Acids Res. 25:3389-3402). In particular, five specific BLAST programs are used to perform the following task:

- (1)BLASTP and BLAST3 compare an amino acid query sequence against a protein. sequence database;
- (2)BLASTN compares a nucleotide query sequence against a nucleotide sequence database:
- (3)BLASTX compares the six-frame conceptual translation products of a query nucleotide sequence (both strands) against a protein sequence database;
- (4)TBLASTN compares a query protein sequence against a nucleotide sequence database translated in all six reading frames (both strands); and
- (5)TBLASTX compares the six-frame translations of a nucleotide query sequence against the six-frame translations of a nucleotide sequence database.

The BLAST programs identify homologous sequences by identifying similar segments, which are referred to herein as "high-scoring segment pairs," between a query amino or nucleic acid sequence 15 - and a test sequence which is preferably obtained from a protein or nucleic acid sequence database. High-scoring segment pairs are preferably identified (i.e., aligned) by means of a scoring matrix, many of which are known in the art. Preferably, the scoring matrix used is the BLOSUM62 matrix (Gonnet et al., 1992, Science 256:1443-1445; Henikoff and Henikoff, 1993, Proteins 17:49-61). Less preferably, the PAM or PAM250 matrices may also be used (see, e.g., Schwartz and Dayhoff, eds., 20 1978, Matrices for Detecting Distance Relationships: Atlas of Protein Sequence and Structure, Washington: National Biomedical Research Foundation)

The BLAST programs evaluate the statistical significance of all high-scoring segment pairs identified, and preferably selects those segments which satisfy a user-specified threshold of significance, such as a user-specified percent homology. Preferably, the statistical significance of a 25 high-scoring segment pair is evaluated using the statistical significance formula of Karlin (see, e.g., Karlin and Altschul, 1990, Proc. Natl. Acad. Sci. USA 87:2267-2268).

Nucleotide sequence complementary to a sequence of the invention is understood to mean any DNA whose nucleotides are complementary to those of the sequence of the invention, and whose orientation is reversed (antiparallel sequence).

The present invention further comprises fragments of the sequences of a) through f), above. Representative fragments of the sequences according to the invention will be understood to mean any nucleotide fragment having at least 8 successive nucleotides, preferably at least 12 successive nucleotides, and still more preferably at least 15 or at least 20 successive nucleotides of the sequence from which it is derived. It is understood that such fragments refer only to portions of SEQ 35 ID No. 1 that are not currently listed in a publicly available database.

Among these representative fragments, those capable of hybridizing under stringent conditions with a nucleotide sequence according to the invention are preferred. Hybridization under

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stringent conditions means that the temperature and ionic strength conditions are chosen such that they allow hybridization to be maintained between two complementary DNA fragments.

By way of illustration, high stringency conditions for the hybridization step for the purposes of defining the nucleotide fragments described above, are advantageously the following.

The hybridization is carried out at a preferred temperature of 65EC in the presence of SSC buffer, 1 × SSC corresponding to 0.15 M NaCl and 0.05 M Na citrate. The washing steps may be, for example, the following:

 $2 \times SSC$, 0.1% SDS at room temperature followed by three washes with $1 \times SSC$, 0.1% SDS; $0.5 \times SSC$, 0.1% SDS; $0.1 \times SSC$, 0.1% SDS at 68EC for 15 minutes.

Intermediate stringency conditions, using, for example, a temperature of 60EC in the 10 presence of a 5 × SSC buffer, or of low stringency, for example a temperature of 50EC in the presence of a 5 x SSC buffer, respectively require a lower overall complementarity for the hybridization between the two sequences.

The stringent hybridization conditions described above for a polynucleotide of about 300 bases in size will be adapted by persons skilled in the art for larger- or smaller-sized 15 oligonucleotides, according to the teaching of Sambrook et al., 1989.

Among the representative fragments according to the invention, those which can be used as primer or probe in methods which make it possible to obtain homologous sequences or their representative fragments according to the invention, or to reconstitute a genomic fragment found to be 20 incomplete in the sequence SEQ ID No. 1 or carrying an error or an uncertainty, are also preferred, these methods, such as the polymerase chain reaction (PCR), cloning and sequencing of nucleic acid being well known to persons skilled in the art. These homologous nucleotide sequences corresponding to mutations or to inter- or intra-species variations, as well as the complete genomic sequence or one of its representative fragments capable of being reconstituted, of course form part of the invention.

Among the said representative fragments, those which can be used as primer or probe in methods allowing diagnosis of the presence of Chlamydia pneumoniae or one of its associated microorganisms as defined below are also preferred.

The representative fragments capable of modulating, regulating, inhibiting or inducing 30 the expression of a gene of Chlamydia pneumoniae or one of its associated microorganisms, and/or capable of modulating the replication cycle of Chlamydia pneumoniae or one of its associated microorganisms in the host cell and/or organism, are also preferred. Replication cycle is intended to designate invasion, multiplication, intracellular localization, in particular retention in the vacuole and inhibition of the process of fusion to the lysosome, and propagation of Chlamydia pneumoniae or one 35 of its associated microorganisms from host cells to host cells.

Among the said representative fragments, those corresponding to nucleotide sequences corresponding to open reading frames, called ORF sequences (ORF for open reading frame), and encoding polypeptides, such as for example, but without being limited thereto, the ORF sequences which will be later described, are finally preferred.

The representative fragments according to the invention may be obtained, for example, by specific amplification, such as PCR, or after digestion, with appropriate restriction enzymes, of nucleotide sequences according to the invention; these methods are in particular described in the manual by Sambrook et al., 1989. The said representative fragments may also be obtained by chemical synthesis when they are not too large in size and according to methods well known to persons skilled in the art. For example, such fragments can be obtained by isolating fragments of the genomic DNA of ATCC Deposit No. ____ or a clone insert present at this ATCC Deposit No. ___.

The representative fragments according to the invention may be used, for example, as primer, to reconstitute some of the said representative fragments, in particular those in which a portion of the sequence is likely to be missing or imperfect, by methods well known to persons skilled in the art such as amplification, cloning or sequencing techniques.

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Modified nucleotide sequence will be understood to mean any nucleotide sequence 15- obtained by mutagenesis according to techniques well known to persons skilled in the art, and exhibiting modifications in relation to the normal sequences, for example mutations in the regulatory and/or promoter sequences for the expression of a polypeptide, in particular leading to a modification of the level of expression of the said polypeptide or to a modulation of the replicative cycle.

Modified nucleotide sequence will also be understood to mean any nucleotide sequence encoding a modified polypeptide as defined below.

The subject of the present invention also includes *Chlamydia pneumoniae* nucleotide sequences characterized in that they are chosen from a nucleotide sequence of an open reading frame (ORF), that is, the ORF2 to ORF1297 sequences.

The ORF2 to ORF1297 nucleotide sequences are defined in Tables 1 and 2, *infra*, by their position on the sequence SEQ ID No. 1. For example, the ORF2 sequence is defined by the nucleotide sequence between the nucleotides at position 42 and 794 on the sequence SEQ ID No. 1, ends included. ORF2 to ORF1297 have been identified via homology analyses as well as via analyses of potential ORF start sites, as discussed in the examples below. It is to be understood that each identified ORF of the invention comprises a nucleotide sequence that spans the contiguous nucleotide sequence from the ORF stop codon immediately 3' to the stop codon of the preceding ORF and through the 5' codon to the next stop codon of SEQ ID No.:1 in-frame to the ORF nucleotide sequence. Table 2, *infra*, lists the beginning, end and potential start site of each of ORFs 1-1297. In one embodiment, the ORF comprises the contiguous nucleotide sequence spanning from the potential ORF start site downstream (that is, 3') to the ORF stop codon (or the ORF codon immediately adjacent to and upstream of the ORF stop codon). ORF2 to ORF1297 encode the polypeptides of SEQ ID No. 2 to SEQ ID No. 1291 and of SEQ ID No. 6844 to SEQ ID No. 6849, respectively.

Upon introduction of minor frameshifts, certain individual ORFs can comprise larger

"combined" ORFs. A list of such putative "combined" ORFs is shown in Table 3, below. For example, a combined ORF can comprise ORF 25, ORF 26 and ORF 27, including intervening inframe, nucleotide sequences. The order of ORFs (5' to 3'), within each "combined" ORF is as listed. It is to be understood that when ORF2 to ORF1297 are referred to herein, such reference is also meant to include "combined" ORFs. Polypeptide sequences encoded by such "combined" ORFs are also part of the present invention.

Table 3

ORF 25, ORF 26, ORF 27;

10 ORF 28, ORF 29, ORF 30;

ORF 31, ORF 32;

ORF 33, ORF 35;

ORF 466, ORF 467;

ORF 468, ORF 469;

15 ORF 477, ORF 476, ORF 474;

ORF 480, ORF 482;

ORF 483, ORF 485, ORF 486, ORF 500;

ORF 503, ORF 504, ORF 505;

ORF 506, ORF 507;

20 ORF 1211, ORF 647;

ORF 1286, ORF 1039;

ORF 691, ORF 690;

ORF 105, ORF 106;

ORF 170, ORF 171; ORF 394, ORF 393;

25 ORF 453, ORF 452, ORF 451;

ORF 526, ORF 525;

ORF 757, ORF 756, ORF 755;

ORF 856, ORF 855;

ORF 958, ORF 957;

30 ORF 915, ORF 914, ORF 913;

ORF 543, ORF 544;

ORF 1266, ORF 380;

ORF 745, ORF 744;

ORF 777, ORF 776;

35 ORF 343, ORF 1297, and representative fragments.

polypeptides encoded by each of the ORFs to sequences present in public published databases. It is understood that those polypeptides listed in Table 1 as exhibiting greater than about 95% identity to a polypeptide present in a publicly disclosed database are not considered part of the present invention; likewise in this embodiment, those nucleotide sequences encoding such polypeptides are not considered part of the invention. In another embodiment, it is understood that those polypeptides listed in Table 1 as exhibiting greater than about 99% identity to a polypeptide present in a publicly disclosed database are not considered part of the invention; likewise, in this embodiment, those nucleotide sequences encoding such polypeptides are not considered part of the invention.

The invention also relates to the nucleotide sequences characterized in that they comprise a nucleotide sequence chosen from:

- a) an ORF2 to ORF1297, a "combined" ORF nucleotide sequence, the nucleotide sequence of the genomic DNA contained within ATCC Deposit No. ______ or the nucleotide sequence of a clone insert in ATCC Deposit No. _____ according to the invention;
- b) a homologous nucleotide sequence exhibiting at least 80% identity across an entire ORF2 to 15- ORF1297 nucleotide sequence according to the invention or as defined in a);
 - c) a polynucleotide sequence that hybridizes to ORF2 to ORF1297 under conditions of high or intermediate stringency as described below:
- (i) By way of example and not limitation, procedures using conditions of high stringency are as follows: Prehybridization of filters containing DNA is carried out for 8 h to overnight at 65EC in 20 buffer composed of 6X SSC, 50 mM Tris-HCl (pH 7.5), 1 mM EDTA, 0.02% PVP, 0.02% Ficoll, 0.02% BSA, and 500 µg/ml denatured salmon sperm DNA. Filters are hybridized for 48 h at 65EC. the preferred hybridization temperature, in prehybridization mixture containing 100 µg/ml denatured salmon sperm DNA and 5-20 X 106 cpm of 32P-labeled probe. Alternatively, the hybridization step can be performed at 65EC in the presence of SSC buffer, 1 x SSC corresponding to 0.15M NaCl and 25 0.05 M Na citrate. Subsequently, filter washes can be done at 37EC for 1 h in a solution containing 2X SSC, 0.01% PVP, 0.01% Ficoll, and 0.01% BSA, followed by a wash in 0.1X SSC at 50EC for 45 min. Alternatively, filter washes can be performed in a solution containing 2 x SSC and 0.1% SDS, or 0.5 x SSC and 0.1% SDS, or 0.1 x SSC and 0.1% SDS at 68EC for 15 minute intervals. Following the wash steps, the hybridized probes are detectable by autoradiography. Other conditions of high 30 stringency which may be used are well known in the art and as cited in Sambrook et al., 1989, Molecular Cloning, A Laboratory Manual, Second Edition, Cold Spring Harbor Press, N.Y., pp. 9.47-9.57; and Ausubel et al., 1989, Current Protocols in Molecular Biology, Green Publishing Associates and Wiley Interscience, N.Y. are incorporated herein in their entirety. Preferably, such sequences encode a homolog of a polypeptide encoded by one of ORF2 to ORF1297. In one 35 embodiment, such sequences encode a Chlamydia pneumoniae polypeptide.
 - (ii) By way of example and not limitation, procedures using conditions of intermediate

stringency are as follows: Filters containing DNA are prehybridized, and then hybridized at a temperature of 60EC in the presence of a 5 x SSC buffer and labeled probe. Subsequently, filters washes are performed in a solution containing 2x SSC at 50EC and the hybridized probes are detectable by autoradiography. Other conditions of intermediate stringency which may be used are well known in the art and as cited in Sambrook et al., 1989, Molecular Cloning, A Laboratory Manual, Second Edition, Cold Spring Harbor Press, N.Y., pp. 9.47-9.57; and Ausubel et al., 1989, Current Protocols in Molecular Biology, Green Publishing Associates and Wiley Interscience, N.Y. are incorporated herein in their entirety. Preferably, such sequences encode a homolog of a polypeptide encoded by one of ORF2 to ORF1297. In one embodiment, such sequences encode a *Chlamydia* pneumoniae polypeptide.

- d) complementary or RNA nucleotide sequence corresponding to an ORF2 to ORF1297 sequence according to the invention or as defined in a), b) or c);
- e) a nucleotide sequence of a representative fragment of an ORF2 to ORF1297 sequence according to the invention or of a sequence as defined in a), b), c) or d);
- 15 f) a nucleotide sequence capable of being obtained from an ORF2 to ORF1297 sequence according to the invention or as defined in a), b), c), d) or e); and
 - g) a modified nucleotide sequence of an ORF2 to ORF1297 sequence according to the invention or as defined in a), b), c), d), e) or f);

As regards the homology with the ORF2 to ORF1297 nucleotide sequences, the homologous sequences exhibiting a percentage identity with the bases of one of the ORF2 to ORF1297 nucleotide sequences of at least 80%, preferably 90% and 95%, are preferred. Such homologous sequences are identified routinely via, for example, the algorithms described above and in the examples below. The said homologous sequences correspond to the homologous sequences as defined above and may comprise, for example, the sequences corresponding to the ORF sequences of a bacterium belonging to the Chlamydia family, including the species *Chlamydia trachomatis*, *Chlamydia psittaci* and *Chlamydia pecorum* mentioned above, as well as the sequences corresponding to the ORF sequences of a bacterium belonging to the variants of the species *Chlamydia pneumoniae*. These homologous sequences may likewise correspond to variations linked to mutations within the same species or between species and may correspond in particular to truncations, substitutions, deletions and/or additions of at least one nucleotide. The said homologous sequences may also correspond to variations linked to the degeneracy of the genetic code or to a bias in the genetic code which is specific to the family, to the species or to the variant and which are likely to be present in *Chlamydia*.

The invention comprises polypeptides encoded by a nucleotide sequence according to the invention, preferably by a representative fragment of the sequence SEQ ID No. 1 and corresponding to an ORF sequence, in particular the *Chlamydia pneumoniae* polypeptides, characterized in that they are chosen from the sequences SEQ ID No. 2 to SEQ ID No. 1291 or SEQ ID No. 6844 to SEQ ID No.

6849 and representative fragments thereof. However, the invention is not limited to polypeptides encoded by ORFs in SEQ ID No. 1 and its corresponding ORF sequences, but encompasses polypeptides of strain variants, polymorphisms, allelic variants, and mutants.

Thus, the invention also comprises the polypeptides characterized in that they comprise a polypeptide chosen from:

- a) a polypeptide encoded by a polynucleotide sequence in SEQ ID No. 1 (e.g., any polypeptide encoded by a polynucleotide sequence corresponding to ORF2 to ORF1297 and/or representative fragments thereof) according to the invention;
- b) a polypeptide homologous to a polypeptide according to the invention, or as defined in a);
- ORF1297 under high or intermediate stringency as described below:
- (i) By way of example and not limitation, procedures using conditions of high stringency are as follows: Prehybridization of filters containing DNA is carried out for 8 h to overnight at 65EC in buffer composed of 6X SSC, 50 mM Tris-HCl (pH 7.5), 1 mM EDTA, 0.02% PVP, 0.02% Ficoll, 15 0.02% BSA, and 500 µg/ml denatured salmon sperm DNA. Filters are hybridized for 48 h at 65EC,
 - the preferred hybridization temperature, in prehybridization mixture containing 100 µg/ml denatured salmon sperm DNA and 5-20 X 10⁶ cpm of ³²P-labeled probe. Alternatively, the hybridization step can be performed at 65EC in the presence of SSC buffer, 1 x SSC corresponding to 0.15M NaCl and 0.05 M Na citrate. Subsequently, filter washes can be done at 37EC for 1 h in a solution containing
- 20 2X SSC, 0.01% PVP, 0.01% Ficoll, and 0.01% BSA, followed by a wash in 0.1X SSC at 50EC for 45 min. Alternatively, filter washes can be performed in a solution containing 2 x SSC and 0.1% SDS, or 0.5 x SSC and 0.1% SDS, or 0.1 x SSC and 0.1% SDS at 68EC for 15 minute intervals. Following the wash steps, the hybridized probes are detectable by autoradiography. Other conditions of high stringency which may be used are well known in the art and as cited in Sambrook et al., 1989,
- Molecular Cloning, A Laboratory Manual, Second Edition, Cold Spring Harbor Press, N.Y., pp. 9.47-9.57; and Ausubel et al., 1989, Current Protocols in Molecular Biology, Green Publishing Associates and Wiley Interscience, N.Y. are incorporated herein in their entirety. Preferably such polypeptide represents a homolog of a polypeptide encoded by ORF2 to ORF1297. Preferably, such sequences encode a homolog of a polypeptide encoded by one of ORF2 to ORF1297. In one embodiment, such sequences encode a Chlamydia pneumoniae polypeptide.
- (ii) By way of example and not limitation, procedures using conditions of intermediate stringency are as follows: Filters containing DNA are prehybridized, and then hybridized at a temperature of 60EC in the presence of a 5 x SSC buffer and labeled probe. Subsequently, filters washes are performed in a solution containing 2x SSC at 50EC and the hybridized probes are detectable by autoradiography. Other conditions of intermediate stringency which may be used are well known in the art and as cited in Sambrook et al., 1989, Molecular Cloning, A Laboratory Manual,

Second Edition, Cold Spring Harbor Press, N.Y., pp. 9.47-9.57; and Ausubel et al., 1989, Current Protocols in Molecular Biology, Green Publishing Associates and Wiley Interscience, N.Y. are incorporated herein in their entirety. Preferably, such sequences encode a homolog of a polypeptide encoded by one of ORF2 to ORF1297. In one embodiment, such sequences encode a *Chlamydia pneumoniae* polypeptide.

- d) a fragment of at least 5 amino acids of a polypeptide according to the invention, or as defined in a), b) or c);
- e) a biologically active fragment of a polypeptide according to the invention, or as defined in a), b), c) or d); and
- 10 f) a modified polypeptide of a polypeptide according to the invention, as defined in a), b), c),d) or e).

In the present description, the terms polypeptide, peptide and protein are interchangeable.

It should be understood that the invention does not relate to the polypeptides in natural form, that is to say that they are not taken in their natural environment but that they may have been 15 isolated or obtained by purification from natural sources, or alternatively obtained by genetic recombination, or else by chemical synthesis and that they may, in this case, comprise nonnatural amino acids, as will be described below.

Homologous polypeptide will be understood to designate the polypeptides exhibiting, in relation to the natural polypeptide, certain modifications such as in particular a deletion, addition or substitution of at least one amino acid, a truncation, an extension, a chimeric fusion, and/or a mutation, or polypeptides exhibiting post-translational modifications. Among the homologous polypeptides, those whose amino acid sequence exhibits at least 80%, preferably 90%, homology or identity with the amino acid sequences of the polypeptides according to the invention are preferred. In the case of a substitution, one or more consecutive or nonconsecutive amino acids are replaced by "equivalent" amino acids. The expression "equivalent" amino acid is intended here to designate any amino acid capable of being substituted for one of the amino acids in the basic structure without, however, essentially modifying the biological activities of the corresponding peptides and as will be defined later.

Protein and/or nucleic acid sequence homologies may be evaluated using any of the variety of sequence comparison algorithms and programs known in the art. Such algorithms and programs include, but are by no means limited to, TBLASTN, BLASTP, FASTA, TFASTA, and CLUSTALW (Pearson and Lipman, 1988, Proc. Natl. Acad. Sci. USA 85(8):2444-2448; Altschul et al., 1990, J. Mol. Biol. 215(3):403-410; Thompson et al., 1994, Nucleic Acids Res. 22(2):4673-4680; Higgins et al., 1996, Methods Enzymol. 266:383-402; Altschul et al., 1990, J. Mol. Biol. 215(3):403-410; Altschul et al., 1993, Nature Genetics 3:266-272)

35 410; Altschul et al., 1993, Nature Genetics 3:266-272).

In a particularly preferred embodiment, protein and nucleic acid sequence homologies are evaluated using the Basic Local Alignment Search Tool ("BLAST") which is well know in the art (see,

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e.g., Karlin and Altschul, 1990, Proc. Natl. Acad. Sci. USA 87:2267-2268; Altschul et al., 1990, J. Mol. Biol. 215:403-410; Altschul et al., 1993, Nature Genetics 3:266-272; Altschul et al., 1997, Nuc. Acids Res. 25:3389-3402). In particular, five specific BLAST programs are used to perform the following task:

- (1)BLASTP and BLAST3 compare an amino acid query sequence against a protein sequence database;
- (2)BLASTN compares a nucleotide query sequence against a nucleotide sequence database;
- (3)BLASTX compares the six-frame conceptual translation products of a query nucleotide sequence (both strands) against a protein sequence database;
- (4)TBLASTN compares a query protein sequence against a nucleotide sequence database translated in all six reading frames (both strands); and
- (5)TBLASTX compares the six-frame translations of a nucleotide query sequence against the six-frame translations of a nucleotide sequence database.
- 15 -The BLAST programs identify homologous sequences by identifying similar segments, which are referred to herein as "high-scoring segment pairs," between a query amino or nucleic acid sequence and a test sequence which is preferably obtained from a protein or nucleic acid sequence database. High-scoring segment pairs are preferably identified (i.e., aligned) by means of a scoring matrix, many of which are known in the art. Preferably, the scoring matrix used is the BLOSUM62 matrix (Gonnet et al., 1992, Science 256:1443-1445; Henikoff and Henikoff, 1993, Proteins 17:49-61). Less preferably, the PAM or PAM250 matrices may also be used (see, e.g., Schwartz and Dayhoff, eds., 1978, Matrices for Detecting Distance Relationships: Atlas of Protein Sequence and Structure, Washington: National Biomedical Research Foundation)

The BLAST programs evaluate the statistical significance of all high-scoring segment pairs identified, and preferably selects those segments which satisfy a user-specified threshold of significance, such as a user-specified percent homology. Preferably, the statistical significance of a high-scoring segment pair is evaluated using the statistical significance formula of Karlin (see, e.g., Karlin and Altschul, 1990, Proc. Natl. Acad. Sci. USA 87:2267-2268).

Equivalent amino acids may be determined either based on their structural homology with the amino acids for which they are substituted, or on results of comparative tests of biological activity between the various polypeptides which may be carried out.

By way of example, there may be mentioned the possibilities of substitutions which may be carried out without resulting in a substantial modification of the biological activity of the corresponding modified polypeptides; the replacements, for example, of leucine with valine or isoleucine, of aspartic acid with glutamic acid, of glutamine with asparagine, of arginine with lysine, and the like, the reverse substitutions naturally being feasible under the same conditions.

The homologous polypeptides also correspond to the polypeptides encoded by the

homologous nucleotide sequences as defined above and thus comprise in the present definition the mutated polypeptides or polypeptides corresponding to inter- or intra-species variations which may exist in *Chlamydia*, and which correspond in particular to truncations, substitutions, deletions and/or additions of at least one amino acid residue.

Biologically active fragment of a polypeptide according to the invention will be understood to designate in particular a polypeptide fragment, as defined below, exhibiting at least one of the characteristics of the polypeptides according to the invention, in particular in that it is:

- capable of eliciting an immune response directed against Chlamydia pneumoniae; and/or

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- capable of being recognized by an antibody specific for a polypeptide according to the invention; and/or
- capable of binding to a polypeptide or to a nucleotide sequence of Chlamydia pneumoniae; and/or
- capable of modulating, regulating, inducing or inhibiting the expression of a gene of *Chlamydia* pneumoniae or one of its associated microorganisms, and/or capable of modulating the replication cycle of *Chlamydia* pneumoniae or one of its associated microorganisms in the host cell and/or organism; and/or
- capable of generally exerting an even partial physiological activity, such as for example a
 structural activity (cellular envelope, ribosome), an enzymatic (metabolic) activity, a transport
 activity, an activity in the secretion or in the virulence.

A polypeptide fragment according to the invention is understood to designate a 20 polypeptide comprising a minimum of 5 amino acids, preferably 10 amino acids or preferably 15 amino acids. It is to be understood that such fragments refer only to portions of polypeptides encoded by ORF2 to ORF1297 that are not currently listed in a publicly available database.

The polypeptide fragments according to the invention may correspond to isolated or purified fragments which are naturally present in *Chlamydia pneumoniae* or which are secreted by *Chlamydia pneumoniae*, or may correspond to fragments capable of being obtained by cleaving the said polypeptide with a proteolytic enzyme, such as trypsin or chymotrypsin or collagenase, or with a chemical reagent, such as cyanogen bromide (CNBr) or alternatively by placing the said polypeptide in a highly acidic environment, for example at pH 2.5. Such polypeptide fragments may be equally well prepared by chemical synthesis, using hosts transformed with an expression vector according to the invention containing a nucleic acid allowing the expression of the said fragments, placed under the control of appropriate elements for regulation and/or expression.

"Modified polypeptide" of a polypeptide according to the invention is understood to designate a polypeptide obtained by genetic recombination or by chemical synthesis as will be described below, exhibiting at least one modification in relation to the normal sequence. These modifications may in particular affect amino acids responsible for a specificity or for the efficiency of the activity, or responsible for the structural conformation, for the charge or for the hydrophobicity, and for the capacity for multimerization and for membrane insertion of the polypeptide according to

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the invention. It is thus possible to create polypeptides with an equivalent, an increased or a reduced activity, and with an equivalent, a narrower or a broader specificity. Among the modified polypeptides, there may be mentioned the polypeptides in which up to 5 amino acids may be modified, truncated at the N- or C-terminal end, or alternatively deleted, or else added.

As is indicated, the modifications of the polypeptide may have in particular the objective:

- of making it capable of modulating, regulating, inhibiting or inducing the expression of a gene of *Chlamydia*, in particular of *Chlamydia pneumoniae* and its variants, or one of its associated microorganisms, and/or capable of modulating the replication cycle of *Chlamydia*, in particular of *Chlamydia pneumoniae* and its variants, or one of its associated microorganisms, in the host cell and/or organism,
- of allowing its use in methods of biosynthesis or of biodegradation, or its incorporation into vaccine compositions,
- of modifying its bioavailability as a compound for therapeutic use.

The said modified polypeptides may also be used on any cell or microorganism for which the said modified polypeptides will be capable of modulating, regulating, inhibiting or inducing gene expression, or of modulating the growth or the replication cycle of the said cell or of the said microorganism. The methods allowing demonstration of the said modulations on eukaryotic or prokaryotic cells are well known to persons skilled in the art. The said cells or microorganisms will be chosen, in particular, from tumour cells or infectious microorganisms and the said modified polypeptides may be used for the prevention or treatment of pathologies linked to the presence of the said cells or of the said microorganisms. It is also clearly understood that the nucleotide sequences encoding the said modified polypeptides may be used for the said modulations, for example by the intermediacy of vectors according to the invention and which are described below, so as to prevent or to treat the said pathologies.

The above modified polypeptides may be obtained using combinatory chemistry, in which it is possible to systematically vary portions of the polypeptide before testing them on models, cell cultures or microorganisms for example, so as to select the compounds which are the most active or which exhibit the desired properties.

Chemical synthesis also has the advantage of being able to use:

- nonnatural amino acids, or
- nonpeptide bonds.

Accordingly, in order to extend the life of the polypeptides according to the invention, it may be advantageous to use nonnatural amino acids, for example in the D form, or alternatively amino acid analogues, in particular sulphur-containing forms for example.

Finally, the structure of the polypeptides according to the invention, its homologous or modified forms, as well as the corresponding fragments may be integrated into chemical structures of the polypeptide type and the like. Accordingly, it may be advantageous to provide at the N- and C-

compounds which are not recognized by proteases. terminal ends

Also forming part of the invention are the nucleotide sequences encoding a polypeptide according to the invention. Described below are ORF nucleotide sequences encoding polypeptides exhibiting particularly preferable characteristics. For each group of preferred ORFS described below, it is to be understood that in addition to the individual ORFs listed, in instances wherein such ORFS are present as part of "combined" ORFs, the "combined" ORFs are also to be included within the preferred group.

More particularly, the subject of the invention is nucleotide sequences, characterized in that they encode a polypeptide of the cellular envelope, preferably of the outer cellular envelope of 10 Chlamydia pneumoniae or one of its representative fragments, such as for example the predominant proteins of the outer membrane, the adhesion proteins or the proteins entering into the composition of the Chlamydia wall. Among these sequences, the sequences comprising a nucleotide sequence chosen from the following sequences are most preferred:

ORF15; ORF25; ORF26; ORF27; ORF28; ORF29; ORF30; ORF31; ORF32; ORF33; ORF35; 15 ORF68; ORF124; ORF275; ORF291; ORF294; ORF327; ORF342; ORF364; ORF374; ORF380; ORF414; ORF439; ORF466; ORF467; ORF468; ORF469; ORF470; ORF472; ORF474; ORF476; ORF477; ORF478; ORF479; ORF480; ORF482; ORF485; ORF500; ORF501; ORF503; ORF504; ORF505; ORF506; ORF520; ORF578; ORF580; ORF581; ORF595; ORF596; ORF597; ORF737; ORF830; ORF834; ORF836; ORF893; ORF917; ORF932; ORF976; ORF1035; ORF1045; ORF1090 20 and one of their representative fragments.

The structure of the cytoplasmic membranes and of the wall of bacteria is dependent on the associated proteins. The structure of the cytoplasmic membrane makes it impermeable to water, to water-soluble substances and to small-sized molecules (ions, small inorganic molecules, peptides or proteins). To enter into or to interfere with a cell or a bacterium, a ligand must establish a special 25 relationship with a protein anchored in the cytoplasmic membrane (the receptor). These proteins which are anchored on the membrane play an important role in metabolism since they control the exchanges in the bacterium. These exchanges apply to molecules of interest for the bacterium (small molecules such as sugars and small peptides) as well as undesirable molecules for the bacterium such as antibiotics or heavy metals.

The double lipid layer structure of the membrane requires the proteins which are inserted therein to have hydrophobic domains of about twenty amino acids forming an alpha helix. Predominantly hydrophobic and potentially transmembrane regions may be predicted from the primary sequence of the proteins, itself deduced from the nucleotide sequence. The presence of one or more putative transmembrane domains raises the possibility for a protein to be associated with the 35 cytoplasmic membrane and to be able to play an important metabolic role therein or alternatively for the protein thus exposed to be able to exhibit potentially protective epitopes.

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If the proteins inserted into the membrane exhibit several transmembrane domains

capable of interacting with one another via electrostatic bonds, it then becomes possible for these proteins to form pores which go across the membrane which becomes permeable for a number of substances. It should be noted that proteins which do not have transmembrane domains may also be anchored by the intermediacy of fatty acids in the cytoplasmic membrane, it being possible for the breaking of the bond between the protein and its anchor in some cases to be responsible for the release of the peptide outside the bacterium.

Preferably, the invention relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* transmembrane polypeptide or one of its representative fragments, having between 1 and 3 transmembrane domains and in that they comprise a nucleotide sequence chosen from the following sequences:

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ORF2; ORF3; ORF6; ORF9; ORF10; ORF11; ORF13; ORF14; ORF16; ORF18; ORF19; ORF20;
   ORF21; ORF22; ORF25; ORF27; ORF28; ORF29; ORF30; ORF31; ORF32; ORF33; ORF34;
   ORF35; ORF37; ORF39; ORF41; ORF42; ORF44; ORF45; ORF46; ORF47; ORF48; ORF49;
   ORF50: ORF53: ORF54; ORF56; ORF57; ORF59; ORF60; ORF61; ORF62; ORF63; ORF64;
15 ORF65; ORF66; ORF69;; ORF72; ORF73; ORF74; ORF76; ORF77; ORF78; ORF79; ORF80;
   ORF82; ORF84; ORF85; ORF86; ORF88; ORF89; ORF90; ORF91; ORF92; ORF93; ORF95;
   ORF96; ORF98; ORF99; ORF100; ORF101; ORF102; ORF103; ORF104; ORF105; ORF106;
   ORF107; ORF108; ORF114; ORF117; ORF118; ORF122; ORF123; ORF124; ORF125; ORF129;
   ORF130: ORF131; ORF132; ORF133; ORF134; ORF135; ORF137; ORF138; ORF139; ORF140;
20 ORF141; ORF142; ORF143; ORF145; ORF146; ORF147; ORF150; ORF151; ORF152; ORF156;
   ORF157; ORF158; ORF159; ORF160; ORF161; ORF162; ORF164; ORF166; ORF167; ORF170;
   ORF173; ORF175; ORF176; ORF178; ORF179; ORF180; ORF182; ORF183; ORF184; ORF185;
   ORF186; ORF187; ORF188; ORF189; ORF190; ORF191; ORF192; ORF194; ORF195; ORF196;
   ORF197; ORF198; ORF199; ORF200; ORF201; ORF202; ORF205; ORF207; ORF208; ORF209;
25 ORF210; ORF215; ORF219; ORF220; ORF224; ORF226; ORF227; ORF228; ORF231;
    ORF232; ORF233; ORF234; ORF235; ORF236; ORF238; ORF239; ORF240; ORF241; ORF242;
    ORF244; ORF247; ORF251; ORF252; ORF253; ORF255; ORF256; ORF257; ORF258; ORF260;
    ORF262; ORF263; ORF266; ORF267; ORF268; ORF269; ORF270; ORF273; ORF274; ORF276;
    ORF278; ORF279; ORF280; ORF281; ORF282; ORF283; ORF284; ORF286; ORF287; ORF289;
30 ORF290; ORF291; ORF293; ORF294; ORF297; ORF304; ORF305; ORF307; ORF308; ORF309;
    ORF310; ORF311; ORF313; ORF314; ORF315; ORF316; ORF318; ORF319; ORF320; ORF321;
    ORF322; ORF323; ORF324; ORF325; ORF326; ORF331; ORF332; ORF336; ORF338; ORF339;
    ORF341: ORF344: ORF345; ORF346; ORF350; ORF352; ORF353; ORF356; ORF357; ORF358;
    ORF359: ORF360; ORF362; ORF365; ORF366; ORF367; ORF370; ORF372; ORF373; ORF376;
35 ORF377; ORF378; ORF381; ORF382; ORF383; ORF384; ORF385; ORF386; ORF387;
    ORF390; ORF392; ORF393; ORF394; ORF396; ORF398; ORF399; ORF400; ORF404; ORF408;
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ORF410; ORF411; ORF413; ORF416; ORF417; ORF418; ORF420; ORF422; ORF424; ORF427;

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ORF428; ORF429; ORF430; ORF431; ORF433; ORF434; ORF437; ORF440; ORF441; ORF442;
   ORF443; ORF444; ORF445; ORF450; ORF451; ORF452; ORF455; ORF456; ORF459;
   ORF460; ORF461; ORF462; ORF463; ORF464; ORF465; ORF467; ORF469; ORF471; ORF474;
   ORF475; ORF476; ORF477; ORF479; ORF482; ORF483; ORF484; ORF485; ORF486; ORF487;
 5 ORF488; ORF491; ORF493; ORF494; ORF497; ORF498; ORF499; ORF503; ORF508; ORF509;
   ORF510; ORF512; ORF514; ORF515; ORF516; ORF517; ORF518; ORF520; ORF521; ORF523;
   ORF525; ORF527; ORF528; ORF529; ORF530; ORF531; ORF533; ORF534; ORF535; ORF536;
   ORF537; ORF540; ORF541; ORF543; ORF544; ORF545; ORF546; ORF548; ORF549; ORF551;
   ORF553; ORF554; ORF555; ORF556; ORF557; ORF558; ORF559; ORF560; ORF562; ORF563;
10 ORF564; ORF565; ORF566; ORF569; ORF571; ORF573; ORF576; ORF577; ORF581; ORF583;
   ORF584; ORF585; ORF586; ORF588; ORF591; ORF592; ORF594; ORF595; ORF596; ORF597;
   ORF599; ORF600; ORF603; ORF605; ORF608; ORF614; ORF615; ORF620; ORF621; ORF622;
   ORF623; ORF624; ORF625; ORF629; ORF630; ORF631; ORF633; ORF634; ORF637; ORF642;
   ORF644; ORF645; ORF647; ORF648; ORF652; ORF654; ORF655; ORF657; ORF658; ORF659;
15 ORF660; ORF661; ORF664; ORF665; ORF666; ORF667; ORF670; ORF671; ORF672; ORF673;
   ORF674; ORF676; ORF679; ORF681; ORF684; ORF687; ORF688; ORF689; ORF690; ORF693;
   ORF694; ORF695; ORF696; ORF697; ORF698; ORF699; ORF700; ORF701; ORF703; ORF705;
   ORF706; ORF707; ORF708; ORF710; ORF712; ORF715; ORF716; ORF717; ORF718; ORF719;
   ORF721; ORF722; ORF723; ORF725; ORF726; ORF727; ORF728; ORF729; ORF730; ORF731;
20 ORF733; ORF736; ORF737; ORF738; ORF740; ORF741; ORF742; ORF743; ORF747; ORF748;
   ORF750; ORF752; ORF754; ORF755; ORF756; ORF757; ORF759; ORF760; ORF761; ORF762;
   ORF763; ORF764; ORF765; ORF766; ORF767; ORF768; ORF772; ORF774; ORF775; ORF777;
   ORF781; ORF783; ORF788; ORF791; ORF792; ORF793; ORF794; ORF795; ORF796; ORF797;
   ORF798; ORF802; ORF803; ORF806; ORF807; ORF808; ORF809; ORF810; ORF811;
25 ORF813; ORF814; ORF815; ORF816; ORF817; ORF819; ORF820; ORF821; ORF823; ORF824;
   ORF827; ORF829; ORF830; ORF831; ORF833; ORF834; ORF835; ORF837; ORF844; ORF845;
   ORF846; ORF847; ORF848; ORF849; ORF850; ORF851; ORF852; ORF854; ORF855; ORF856;
   ORF857; ORF859; ORF860; ORF862; ORF865; ORF866; ORF868; ORF869; ORF871;
   ORF872; ORF874; ORF877; ORF878; ORF879; ORF880; ORF881; ORF882; ORF884; ORF885;
30 ORF888; ORF889; ORF890; ORF891; ORF892; ORF894; ORF895; ORF896; ORF897; ORF899;
   ORF900; ORF902; ORF903; ORF904; ORF905; ORF909; ORF910; ORF912; ORF913; ORF914;
   ORF915; ORF917; ORF918; ORF919; ORF921; ORF923; ORF924; ORF926; ORF927; ORF928;
   ORF929; ORF930; ORF931; ORF937; ORF938; ORF939; ORF941; ORF943; ORF948; ORF951;
   ORF952; ORF953; ORF958; ORF960; ORF963; ORF964; ORF965; ORF968; ORF970; ORF974;
35 ORF975; ORF977; ORF980; ORF981; ORF983; ORF984; ORF985; ORF987; ORF989;
   ORF992; ORF993; ORF997; ORF998; ORF999; ORF1001; ORF1002; ORF1004; ORF1005;
   ORF1009; ORF1013; ORF1014; ORF1015; ORF1016; ORF1019; ORF1021; ORF1023; ORF1024;
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ORF1029; ORF1031; ORF1033; ORF1034; ORF1039; ORF1041; ORF1042; ORF1045; ORF1047; ORF1049; ORF1051; ORF1052; ORF1053; ORF1054; ORF1056; ORF1059; ORF1061; ORF1062; ORF1063; ORF1064; ORF1065; ORF1067; ORF1075; ORF1077; ORF1078; ORF1079; ORF1080; ORF1081; ORF1089; ORF1095; ORF1097; ORF1098; ORF1099; ORF1101; ORF1102; ORF1103; ORF1106; ORF1107; ORF1108; ORF1109; ORF1110; ORF1113; ORF1116; ORF1118; ORF1119; ORF1121; ORF1123; ORF1124; ORF1126; ORF1128; ORF1130; ORF1131; ORF1133; ORF1134; ORF1136; ORF1137 and one of their representative fragments.

Preferably, the invention relates to the nucleotide sequences according to the invention, characterized in that they encode a Chlamydia pneumoniae transmembrane polypeptide or one of its 10 representative fragments, having between 4 and 6 transmembrane domains and in that they comprise a nucleotide sequence chosen from the following sequences: ORF5; ORF7; ORF8; ORF15; ORF36; ORF38; ORF51; ORF55; ORF58; ORF67; ORF70; ORF81; ORF97; ORF110; ORF111; ORF115; ORF119; ORF126; ORF128; ORF148; ORF155; ORF163: -ORF165; ORF168; ORF169; ORF171; ORF172; ORF174; ORF177; ORF181; ORF193; ORF203; 15 ORF213; ORF214; ORF216; ORF217; ORF221; ORF222; ORF225; ORF229; ORF243; ORF246; ORF248; ORF254; ORF261; ORF285; ORF288; ORF292; ORF296; ORF298; ORF299; ORF301; ORF303; ORF317; ORF328; ORF329; ORF351; ORF354; ORF355; ORF364; ORF371; ORF374; ORF375; ORF391; ORF395; ORF401; ORF403; ORF405; ORF409; ORF414; ORF419; ORF421; ORF423; ORF425; ORF438; ORF448; ORF453; ORF458; ORF466; ORF468; ORF470; ORF480; 20 ORF489; ORF490; ORF496; ORF501; ORF504; ORF505; ORF506; ORF511; ORF513; ORF519; ORF526; ORF532; ORF538; ORF539; ORF547; ORF550; ORF561; ORF568; ORF570; ORF574; ORF578; ORF579; ORF580; ORF582; ORF589; ORF593; ORF598; ORF601; ORF604; ORF610; ORF613; ORF617; ORF626; ORF632; ORF635; ORF638; ORF640; ORF641; ORF646; ORF649; ORF650; ORF651; ORF686; ORF711; ORF724; ORF732; ORF734; ORF744; ORF745; ORF749; 25 ORF751; ORF769; ORF770; ORF771; ORF773; ORF776; ORF779; ORF780; ORF785; ORF787; ORF789; ORF801; ORF805; ORF812; ORF822; ORF825; ORF826; ORF839; ORF841; ORF843; ORF853; ORF861; ORF875; ORF876; ORF886; ORF893; ORF898; ORF906; ORF907; ORF908; ORF920; ORF922; ORF925; ORF933; ORF935; ORF936; ORF944; ORF946; ORF947; ORF954; ORF959; ORF961; ORF966; ORF967; ORF972; ORF978; ORF995; ORF996; ORF1000; ORF1003; 30 ORF1010; ORF1011; ORF1012; ORF1017; ORF1020; ORF1030; ORF1036; ORF1038; ORF1043; ORF1046; ORF1048; ORF1050; ORF1058; ORF1071; ORF1073; ORF1084; ORF1085; ORF1086; ORF1087; ORF1091; ORF1092; ORF1094; ORF1096; ORF1100; ORF1104; ORF1111; ORF1112; ORF1114; ORF1117; ORF1122; ORF1125 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* transmembrane polypeptide or one of its representative fragments, having at least 7 transmembrane domains and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF17; ORF52; ORF68; ORF83; ORF87; ORF109; ORF112; ORF113; ORF120; ORF121; ORF127; ORF153; ORF204; ORF211; ORF218; ORF223; ORF275; ORF277; ORF295; ORF300; ORF302; ORF306; ORF327; ORF335; ORF342; ORF343; ORF347; ORF349; ORF361; ORF363; ORF369; ORF380; ORF388; ORF389; ORF397; ORF415; ORF432; ORF439; ORF446; ORF449; ORF472; ORF478; ORF500; ORF522; ORF524; ORF567; ORF575; ORF602; ORF606; ORF609; ORF636; ORF639; ORF643; ORF653; ORF668; ORF692; ORF702; ORF704; ORF713; ORF720; ORF778; ORF784; ORF800; ORF836; ORF838; ORF842; ORF864; ORF867; ORF883; ORF901; ORF916; ORF932; ORF934; ORF940; ORF942; ORF950; ORF956; ORF971; ORF973; ORF976; ORF988; ORF994; ORF1018; ORF1028; ORF1035; ORF1037; ORF1044; ORF1055; ORF1057; ORF1068; ORF1069; ORF1070; ORF1072; ORF1082; ORF1088; ORF1105; ORF1132; ORF1135 and one of their representative fragments.

Preferably, the invention relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* surface exposed polypeptide (e.g., an outer membrane protein) or one of its representative fragments, said nucleotide sequences comprising a 15 nucleotide sequence chosen from the following sequences:

ORF 15, ORF 25, ORF 26, ORF 27, ORF 28, ORF 29, ORF 30, ORF 31, ORF 32, ORF 33, ORF 35, ORF 36, ORF 1257, ORF 280, ORF 291, ORF 314, ORF 354, ORF 380, ORF 1266, ORF 466, ORF 467, ORF 468, ORF 469, ORF 470, ORF 472, ORF 474, ORF 476, ORF 477, ORF 478, ORF 479, ORF 480, ORF 482, ORF 483, ORF 485, ORF 486, ORF 500, ORF 501, ORF 503, ORF 504, ORF 505, ORF 506, ORF 507, ORF 1268, ORF 1269, ORF 543, ORF 544, ORF 578, ORF 579, ORF 580, ORF 581, ORF 595, ORF 596, ORF 597, ORF 1271, ORF 633, ORF 637, ORF 699, ORF 706, ORF 737, ORF 744, ORF 1273, ORF 751, ORF 775, ORF 776, ORF 777, ORF 793, ORF 815, ORF 830, ORF 1221, ORF 849, ORF 851, ORF 852, ORF 874, ORF 891, ORF 922, ORF 940, ORF 1231, ORF 1281, ORF 1035, ORF 1079, ORF 1087, ORF 1108, and one of their representative fragments.

Preferably, the invention relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* lipoprotein or one of its representative fragments, said nucleotide sequences comprising a nucleotide sequence chosen from the following sequences:

ORF 3, ORF 10, ORF 11, ORF 16, ORF 1254, ORF 1255, ORF 38, ORF 1256, ORF 62, ORF 85, ORF 1258, ORF 115, ORF 1151, ORF 151, ORF 1259, ORF 173, ORF 1261, ORF 186, ORF 194, ORF 205, ORF 214, ORF 216, ORF 217, ORF 238, ORF 1177, ORF 280, ORF 291, ORF 317, ORF 327, ORF 354, ORF 364, ORF 367, ORF 414, ORF 432, ORF 1192, ORF 460, ORF 1267, ORF 1268, ORF 520, ORF 536, ORF 1270, ORF 576, ORF 597, ORF 603, ORF 609, ORF 637, ORF 1272, ORF 652, ORF 1213, ORF 699, ORF 705, ORF 706, ORF 708, ORF 711, ORF 727, ORF 1274, ORF 800, ORF 814, ORF 825, ORF 829, ORF 830, ORF 831, ORF 844, ORF 849, ORF 1275, ORF 1276, ORF 1277, ORF 872, ORF 878, ORF 880, ORF 891, ORF 892, ORF 1278, ORF 1279, ORF 1280, ORF

941, ORF 942, ORF 1282, ORF 1283, ORF 952, ORF 988, ORF 998, ORF 1009, ORF 1285, ORF

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1235, ORF 1028, ORF 1056, ORF 1070, ORF 1287, ORF 1087, ORF 1288, ORF 1289, ORF 1098, ORF 1246, ORF 1291, ORF 1108, ORF 1109, ORF 1112, ORF 1133, and one of their representative fragments.

Preferably, the invention relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide involved in lipopolysaccharide (LPS) biosynthesis, said nucleotide sequences comprising a nucleotide sequence chosen from the following sequences: ORF 316, ORF 564, ORF 610, ORF 647, ORF 1211, ORF 688, ORF 924, and one of their representative fragments.

Preferably the invention relates to additional LPS-related nucleotide sequences according to the invention, characterized in that they encode:

- (a) a Chlamydia pneumoniae KDO (3-deoxy-D-manno-octulosonic acid)-related polypeptide or one of its representative fragments, said nucleotide sequences comprising a nucleotide sequence chosen from the following sequences: ORF 177, ORF 1156, ORF 245, ORF 767, and one of their representative fragments;
- (b) a *Chlamydia pneumoniae* phosphomannomutase-related polypeptide or one of its representative fragments, said nucleotide sequences comprising a nucleotide sequence chosen from the following sequences: ORF 74, and one of its representative fragments;
- (c) a Chlamydia pneumoniae phosphoglucomutase-related polypeptide or one of its representative fragments, said nucleotide sequences comprising a nucleotide sequence chosen from the following sequences: ORF 1286, ORF 1039, and one of their representative fragments; and
 - (d) a Chlamydia pneumoniae lipid A component-related polypeptide or one of its representative fragments, said nucleotide sequences comprising a nucleotide sequence chosen from the following sequences: ORF 689, ORF 690, ORF 691, ORF 1037, and one of their representative fragments.
 - Preferably, the invention relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide containing RGD (Arg-Gly-Asp) attachment sites or one of its representative fragments.
 - (a) RGD-containing proteins that are outer membrane proteins, are more likely to play a role in cell attachment. ORFs that encoded a protein containing an RGD sequence and also were classified as outer membrane proteins are ORF 468 and its representative fragments.
- (b) An RGD-encoding ORF that showed homology to cds1, cds2, and copN type III virulence loci in *Chlamydia psittaci* (Hsia, R. et al. (1997), Type III secretion genes identity a putative virulence locus of Chlamydia. Molecular Microbiology 25:351-359) is ORF 350, and its representative fragments.

(c) The outer membrane of Chlamydia is made of cysteine-rich proteins that form a network of both intra and inter molecular disulfide links. This contributes to the integrity of the membrane since Chlamydia lacks the peptidoglycan layer that other gram-negative bacteria have. Cysteine-rich proteins that have the RGD sequence are also considered to be potential vaccine candidates. Cysteine-rich proteins were defined as proteins that had more than 3.0% cysteine in their primary amino acid sequence, above the mean genomic ORF cysteine content. The corresponding ORFs are: ORF 1290, ORF 1294, ORF 1296, and one of their representative fragments.

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(d) The outer membrane of Chlamydia may also contain small proteins that have cysteines in their N- and C-terminus that may contribute to the network formed by disulfide linkages. These proteins may be anchored in the outer membrane via their N-terminus and may have their C-terminus exposed, which then can interact with the host cells. Alternatively, these proteins may be anchored in the outer membrane via both N-and C-terminus and may have regions in the middle that may be exposed which can in turn interact with the host cells. ORFs encoding polypeptides that contain cysteines in their first 30 amino acids and also contain an RGD sequence are: ORF 105, ORF 106, ORF 114, ORF 170, ORF 171, ORF 1264, ORF 268, ORF 1265, ORF 350, ORF 393, ORF 394, ORF 451, ORF 452, ORF 453, ORF 473, ORF 499, ORF 515, ORF 519, ORF 525, ORF 526, ORF 538, ORF 611, ORF 645, ORF 686, ORF 700, ORF 746, ORF 755, ORF 756, ORF 757, ORF 789, ORF 814, ORF 855, ORF 856, ORF 878, ORF 957, ORF 958, ORF 989, ORF 1290, and one of their representative fragments.

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(e) RGD-containing ORFs homologous to RGD-containing ORFs from *Chlamydia* trachomatis are:

ORF 114, ORF 468, ORF 755, ORF 756, ORF 757, ORF 855, ORF 856, ORF 905, ORF 913, ORF 914, ORF 915, and one of their representative fragments.

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Preferably, the invention relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* Type III or other, non-type III secreted polypeptide or one of its representative fragments, said nucleotide sequences comprising a nucleotide sequence chosen from the following sequences:

35 ORF 25, ORF 28, ORF 29, ORF 33, ORF 308, ORF 309, ORF 343, ORF 344, ORF 345, ORF 367, ORF 414, ORF 415, ORF 480, ORF 550, ORF 579, ORF 580, ORF 581, ORF 597, ORF 699, ORF 744, ORF 751, ORF 776, ORF 866, ORF 874, ORF 883, ORF 884, ORF 888, ORF 891, ORF 1293,

and one of their representative fragments.

Preferably, the invention relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* cell wall anchored surface polypeptide or one of its representative fragments, said nucleotide sequences comprising a nucleotide sequence chosen from the following sequences: ORF 267, ORF 271, ORF 419, ORF 590, ORF 932, ORF 1292, ORF 1295, and one of their representative fragments.

Preferably, the invention relates to the nucleotide sequences according to the invention, characterized in that they encode Chlamydia pneumoniae polypeptides not found in Chlamydia trachomatis (Blastp. P>e⁻¹⁰), said nucleotide sequences comprising a nucleotide sequence chosen from 10 the following sequences: ORF 7, ORF 8, ORF 9, ORF 16, ORF 17, ORF 18, ORF 19, ORF 20, ORF 21, ORF 22, ORF 1254, ORF 23, ORF 1255, ORF 24, ORF 1139, ORF 1140, ORF 46, ORF 47, ORF 51, ORF 60, ORF 1256, ORF 61, ORF 62, ORF 63, ORF 64, ORF 1257, ORF 65, ORF 66, ORF 67. ORF 68, ORF 1143, ORF 1145, ORF 83, ORF 84, ORF 1146, ORF 85, ORF 86, ORF 87, ORF 1258, ORF 116, ORF 117, ORF 125, ORF 1148, ORF 143, ORF 1150, ORF 1151, ORF 144, ORF 145, ORF 15 147, ORF 148, ORF 149, ORF 150, ORF 152, ORF 1259, ORF 162, ORF 166, ORF 1154, ORF 167, ORF 1261, ORF 1156, ORF 1157, ORF 178, ORF 179, ORF 1158, ORF 182, ORF 183, ORF 184, ORF 185, ORF 1159, ORF 186, ORF 1160, ORF 187, ORF 188, ORF 189, ORF 190, ORF 1161, ORF 1162, ORF 191, ORF 192, ORF 194, ORF 195, ORF 1163, ORF 196, ORF 201, ORF 202, ORF 209, ORF 212, ORF 221, ORF 224, ORF 1167, ORF 226, ORF 227, ORF 228, ORF 229, ORF 230, ORF 20 231, ORF 232, ORF 1169, ORF 1170, ORF 1171, ORF 234, ORF 235, ORF 236, ORF 1172, ORF 243, ORF 251, ORF 252, ORF 1176, ORF 253, ORF 255, ORF 254, ORF 256, ORF 1177, ORF 1178, ORF 262, ORF 263, ORF 1264, ORF 278, ORF 279, ORF 1180, ORF 280, ORF 290, ORF 291, ORF 292, ORF 296, ORF 1181, ORF 297, ORF 298, ORF 300, ORF 1265, ORF 322, ORF 324, ORF 325, ORF 370, ORF 1186, ORF 371, ORF 372, ORF 1187, ORF 373, ORF 378, ORF 1266, ORF 382, ORF 25 383, ORF 384, ORF 385, ORF 386, ORF 1188, ORF 1189, ORF 391, ORF 392, ORF 398, ORF 400, ORF 403, ORF 1191, ORF 423, ORF 435, ORF 445, ORF 450, ORF 1193, ORF 456, ORF 460, ORF 461, ORF 465, ORF 1196, ORF 471, ORF 473, ORF 475, ORF 481, ORF 484, ORF 487, ORF 488, ORF 489, ORF 490, ORF 491, ORF 492, ORF 493, ORF 494, ORF 495, ORF 496, ORF 497, ORF 498, ORF 499, ORF 502, ORF 1267, ORF 1268, ORF 508, ORF 510, ORF 509, ORF 512, ORF 515, 30 ORF 519, ORF 1197, ORF 521, ORF 1198, ORF 522, ORF 524, ORF 528, ORF 534, ORF 537, ORF 1269, ORF 1270, ORF 548, ORF 551, ORF 557, ORF 1201, ORF 1203, ORF 562, ORF 566, ORF 593, ORF 595, ORF 600, ORF 1271, ORF 604, ORF 611, ORF 612, ORF 614, ORF 616, ORF 625, ORF 627, ORF 628, ORF 629, ORF 631, ORF 641, ORF 1272, ORF 648, ORF 1212, ORF 663, ORF 685, ORF 707, ORF 714, ORF 715, ORF 716, ORF 717, ORF 722, ORF 746, ORF 1273, ORF 761, 35 ORF 764, ORF 770, ORF 1217, ORF 783, ORF 1274, ORF 803, ORF 815, ORF 1220, ORF 835, ORF 1221, ORF 844, ORF 845, ORF 846, ORF 847, ORF 848, ORF 849, ORF 850, ORF 851, ORF 1275,

ORF 852, ORF 862, ORF 1276, ORF 1277, ORF 873, ORF 1223, ORF 892, ORF 919, ORF 1225,

ORF 1278, ORF 926, ORF 1228, ORF 1229, ORF 1230, ORF 1279, ORF 1281, ORF 1282, ORF 1283, ORF 948, ORF 950, ORF 949, ORF 951, ORF 980, ORF 982, ORF 1233, ORF 999, ORF 1000, ORF 1001, ORF 1002, ORF 1008, ORF 1285, ORF 1235, ORF 1016, ORF 1019, ORF 1027, ORF 1036, ORF 1241, ORF 1048, ORF 1049, ORF 1050, ORF 1053, ORF 1054, ORF 1064, ORF 1076, ORF 1091, ORF 1288, ORF 1093, ORF 1289, ORF 1101, ORF 1103, ORF 1245, ORF 1246, ORF 1247, ORF 1290, ORF 1291, ORF 1115, ORF 1116, ORF 1118, ORF 1120, ORF 1249, ORF 1121, ORF 1250, ORF 1126, ORF 1251, ORF 1127, ORF 1128, ORF 1130, ORF 1129, ORF 1131, ORF 1136, ORF 1253, ORF 1292, ORF 1294, ORF 1295, ORF 1296, and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the intermediate metabolism, in particular in the metabolism of sugars and/or of cofactors, such as for example triose phosphate isomerase or pyruvate kinase, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF2; ORF55; ORF56; ORF69; ORF75; ORF80; ORF100; ORF110; ORF114; ORF120; ORF121; ORF157; ORF160; ORF161; ORF172; ORF180; ORF181; ORF198; ORF200; ORF225; ORF248; ORF249; ORF276; ORF277; ORF318; ORF319; ORF320; ORF323; ORF331; ORF347; ORF375; ORF376; ORF381; ORF393; ORF394; ORF395; ORF396; ORF409; ORF446; ORF447; ORF448; ORF449; ORF513; ORF516; ORF571; ORF647; ORF662; ORF697; ORF718; ORF793; ORF794; ORF808; ORF809; ORF838; ORF839; ORF840; ORF853; ORF854; ORF918; ORF923; ORF929; ORF931; ORF938; ORF939; ORF958; ORF959; ORF960; ORF966; ORF995; ORF1021; ORF1040; ORF1041; ORF1042; ORF1085; ORF1100; ORF1102; ORF1117; ORF1118; ORF1119; ORF1120; ORF1135 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the intermediate metabolism of nucleotides or nucleic acids, such as for example CTP synthetase or GMP synthetase, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF77; ORF78; ORF138; ORF189; ORF190; ORF233; ORF246; ORF338; ORF412; ORF421; 30 ORF438; ORF607; ORF648; ORF657; ORF740; ORF783; ORF967; ORF989; ORF990; ORF992; ORF1011; ORF1058; ORF1059; ORF1073; ORF1074 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the metabolism of nucleic acids, such as for example 35 DNA polymerases or DNA topoisomerases, and in that they comprise a nucleotide sequence chosen

ORF14; ORF59; ORF70; ORF71; ORF97; ORF113; ORF137; ORF141; ORF169; ORF285; ORF287;

from the following sequences:

ORF288; ORF313; ORF326; ORF358; ORF411; ORF443; ORF548; ORF569; ORF601; ORF651; ORF654; ORF658; ORF659; ORF664; ORF665; ORF694; ORF698; ORF704; ORF760; ORF762; ORF763; ORF786; ORF787; ORF788; ORF801; ORF802; ORF812; ORF819; ORF822; ORF870; ORF897; ORF898; ORF902; ORF908; ORF916; ORF954; ORF955; ORF961; ORF983; ORF996; ORF1007; ORF1012; ORF1013; ORF1014; ORF1015; ORF1038; ORF1137 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the metabolism of amino acids or polypeptides, such as 10 for example serine hydroxymethyl transferase or the proteins which load amino acids onto transfer RNAs, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF99; ORF111; ORF127; ORF134; ORF140; ORF174; ORF175; ORF176; ORF353; ORF377; ORF404; ORF523; ORF539; ORF559; ORF561; ORF586; ORF598; ORF609; ORF636; ORF687; ORF700; ORF701; ORF759; ORF790; ORF857; ORF861; ORF904; ORF936; ORF952; ORF962; ORF963; ORF964; ORF965; ORF991; ORF1003; ORF1004; ORF1005; ORF1018; ORF1067; ORF1110; ORF1111; ORF1112; ORF1114; ORF1121; ORF1122; ORF1123; ORF1124; ORF1125 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the metabolism of polypeptides, such as for example protein kinases or proteases, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF4; ORF44; ORF45; ORF48; ORF54; ORF112; ORF130; ORF155; ORF163; ORF212; ORF257; ORF307; ÓRF343; ORF405; ORF416; ORF458; ORF540; ORF541; ORF542; ORF543; ORF544; ORF560; ORF594; ORF652; ORF699; ORF723; ORF747; ORF817; ORF827; ORF871; ORF909; ORF910; ORF911; ORF912; ORF1023; ORF1051; ORF1052; ORF1081 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the metabolism of fatty acids, such as for example succinyl-CoA-synthesizing proteins or phosphatidylserine synthetase, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF76; ORF284; ORF308; ORF309; ORF310; ORF311; ORF312; ORF425; ORF433; ORF565; ORF688; ORF690; ORF691; ORF767; ORF797; ORF894; ORF895; ORF994; ORF1020; ORF1030; ORF1033; ORF1034; ORF1046; ORF1047; ORF1057 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its

representative fragments which is involved in the synthesis of the wall, such as for example KDO transferase, and the proteins responsible for the attachment of certain sugars onto the exposed proteins, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF49; ORF50; ORF177; ORF178; ORF245; ORF610; ORF972; ORF974; ORF978; ORF1037 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the transcription, translation and/or maturation process, such as for example initiation factors, RNA polymerases or certain chaperone proteins, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF90; ORF92; ORF131; ORF151; ORF199; ORF333; ORF334; ORF336; ORF379; ORF589; ORF590; ORF619; ORF630; ORF649; ORF739; ORF741; ORF806; ORF821; ORF843; ORF968; ORF971; ORF1061 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* ribosomal polypeptide or one of its representative fragments, such as for example the ribosomal proteins L21, L27 and S10, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF93; ORF94; ORF95; ORF136; ORF259; ORF332; ORF348; ORF583; ORF584; ORF588; ORF591; ORF592; ORF663; ORF666; ORF667; ORF669; ORF670; ORF671; ORF672; ORF673;

20 ORF674; ORF675; ORF676; ORF677; ORF678; ORF679; ORF680; ORF681; ORF683; ORF684; ORF738; ORF781; ORF1008; ORF1024; ORF1025; ORF1066 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* transport polypeptide or one of its representative fragments, such as for example the proteins for transporting amino acids, sugars and certain oligopeptides, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF40; ORF41; ORF52; ORF105; ORF106; ORF107; ORF109; ORF133; ORF210; ORF211; ORF214; ORF215; ORF216; ORF217; ORF218; ORF219; ORF220; ORF223; ORF242; ORF260; ORF293; ORF299; ORF366; ORF369; ORF575; ORF602; ORF638; ORF639; ORF640; ORF643; ORF653; ORF702; ORF703; ORF724; ORF732; ORF855; ORF856; ORF901; ORF906; ORF933; ORF942; ORF1043; ORF1086; ORF1105 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the virulence process, such as for example the proteins analogous to the *Escherichia coli* vacB protein, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF546; ORF550; ORF778; ORF779; ORF886 and one of their representative fragments.

Preferably, the invention also relates to the nucleotide sequences according to the invention, characterized in that they encode a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the secretory system and/or which is secreted, such as for example proteins homologous to proteins in the secretory system of certain bacteria such as the Salmonellae or the Yersiniae, and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF751; ORF874; ORF875; ORF876; ORF883; ORF884; ORF885 and one of their representative fragments.

Preferably, the invention also relates to a nucleotide sequence according to the invention, characterized in that they encode a polypeptide specific to *Chlamydia pneumoniae* or one of its representative fragments (with a Blast E value of >10⁻⁵), and in that they comprise a nucleotide sequence chosen from the following sequences:

ORF7; ORF8; ORF17; ORF18; ORF19; ORF20; ORF22; ORF23; ORF24; ORF51; ORF60; ORF63; 15 - ORF65; ORF66; ORF67; ORF83; ORF84; ORF86; ORF87; ORF125; ORF143; ORF144; ORF179; ORF182; ORF184; ORF185; ORF187; ORF221; ORF252; ORF254;; ORF278; ORF279; ORF387; ORF388; ORF397; ORF1048; ORF1049; ORF1050; ORF1128; ORF1130; ORF1131 and one of their representative fragments.

Also forming part of the invention are polypeptides encoded by the polynucleotides of the invention, as well as fusion polypeptides comprising such polypeptides. In one embodiment, the polypeptides and fusion polypeptides immunoreact with seropositive serum of an individual infected with *Chlamydia pneumoniae*. For example, described below, are polypeptide sequences exhibiting particularly preferable characteristics. For each group of preferred polypeptides described below, it is to be understood that in addition to the individual polypeptides listed, in instances wherein such polypeptides are encoded as part of "combined" ORFs, such "combined" polypeptides are also to be included within the preferred group.

The subject of the invention is also a polypeptide according to the invention, characterized in that it is a polypeptide of the cellular envelope, preferably of the outer cellular envelope, of *Chlamydia pneumoniae* or one of its representative fragments. According to the 30 invention, the said polypeptide is preferably chosen from the polypeptides having the following sequences:

SEQ ID No. 15; SEQ ID No. 25; SEQ ID No. 26; SEQ ID No. 27; SEQ ID No. 28; SEQ ID No. 29; SEQ ID No. 30; SEQ ID No. 31; SEQ ID No. 32; SEQ ID No. 33; SEQ ID No. 35; SEQ ID No. 68; SEQ ID No. 124; SEQ ID No. 275; SEQ ID No. 291; SEQ ID No. 294; SEQ ID No. 327; SEQ ID No. 342; SEQ ID No. 364; SEQ ID No. 374; SEQ ID No. 380; SEQ ID No. 414; SEQ ID No. 439; SEQ ID No. 466; SEQ ID No. 467; SEQ ID No. 468; SEQ ID No. 469; SEQ ID No. 470; SEQ ID No. 472; SEQ ID No. 474; SEQ ID No. 476; SEQ ID No. 477; SEQ ID No. 478; SEQ ID No. 479;

SEQ ID No. 480; SEQ ID No. 482; SEQ ID No. 485; SEQ ID No. 500; SEQ ID No. 501;
SEQ ID No. 503; SEQ ID No. 504; SEQ ID No. 505; SEQ ID No. 506; SEQ ID No. 520; SEQ ID No. 578; SEQ ID No. 580; SEQ ID No. 581; SEQ ID No. 595; SEQ ID No. 596; SEQ ID No. 597;
SEQ ID No. 737; SEQ ID No. 830; SEQ ID No. 834; SEQ ID No. 836; SEQ ID No. 893; SEQ ID No. 917; SEQ ID No. 932; SEQ ID No. 976; SEQ ID No. 1035; SEQ ID No. 1045; SEQ ID No. 1090 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* transmembrane polypeptide or one of its representative fragments, having between 1 and 3 transmembrane domains, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 2; SEQ ID No. 3; SEQ ID No. 6; SEQ ID No. 9; SEQ ID No. 10; SEQ ID No. 11; SEQ ID No. 13; SEQ ID No. 14; SEQ ID No. 16; SEQ ID No. 18; SEQ ID No. 19; SEQ ID No. 20; SEQ ID No. 21; SEQ ID No. 22; SEQ ID No. 25; SEQ ID No. 27; SEQ ID No. 28; SEQ ID No. 29; SEQ ID No. 30; SEQ ID No. 31; SEQ ID No. 32; SEQ ID No. 33; SEQ ID No. 34; 15 SEQ ID No. 35; SEQ ID No. 37; SEQ ID No. 39; SEQ ID No. 41; SEQ ID No. 42; SEQ ID No. 44; SEQ ID No. 45; SEQ ID No. 46; SEQ ID No. 47; SEQ ID No. 48; SEQ ID No. 49; SEQ ID No. 50; SEQ ID No. 53; SEQ ID No. 54; SEQ ID No. 56; SEQ ID No. 57; SEQ ID No. 59; SEQ ID No. 60; SEQ ID No. 61; SEQ ID No. 62; SEQ ID No. 63; SEQ ID No. 64; SEQ ID No. 65; SEQ ID No. 66; SEQ ID No. 69;; SEQ ID No. 72; SEQ ID No. 73; SEQ ID 20 No. 74; SEQ ID No. 76; SEQ ID No. 77; SEQ ID No. 78; SEQ ID No. 79; SEQ ID No. 80; SEQ ID No. 82; SEQ ID No. 84; SEQ ID No. 85; SEQ ID No. 86; SEQ ID No. 88; SEQ ID No. 89; SEQ ID No. 90; SEQ ID No. 91; SEQ ID No. 92; SEQ ID No. 93; SEQ ID No. 95; SEQ ID No. 96; SEQ ID No. 98; SEQ ID No. 99; SEQ ID No. 100; SEQ ID No. 101; SEQ ID No. 102; SEQ ID No. 103; SEQ ID No. 104; SEQ ID No. 105; SEQ ID No. 106; SEQ ID No. 107; 25 SEQ ID No. 108; SEQ ID No. 114; SEQ ID No. 117; SEQ ID No. 118; SEQ ID No. 122; SEQ ID No. 123; SEQ ID No. 124; SEQ ID No. 125; SEQ ID No. 129; SEQ ID No. 130; SEQ ID No. 131; SEQ ID No. 132; SEQ ID No. 133; SEQ ID No. 134; SEQ ID No. 135; SEQ ID No. 137; SEQ ID No. 138; SEQ ID No. 139; SEQ ID No. 140; SEQ ID No. 141; SEQ ID No. 142; SEQ ID No. 143; SEQ ID No. 145; SEQ ID No. 146; SEQ ID No. 147; SEQ ID No. 150; SEQ ID No. 151; SEQ ID 30 No. 152; SEQ ID No. 156; SEQ ID No. 157; SEQ ID No. 158; SEQ ID No. 159; SEQ ID No. 160; SEQ ID No. 161; SEQ ID No. 162; SEQ ID No. 164; SEQ ID No. 166; SEQ ID No. 167; SEQ ID No. 170; SEQ ID No. 173; SEQ ID No. 175; SEQ ID No. 176; SEQ ID No. 178; SEQ ID No. 179; SEQ ID No. 180; SEQ ID No. 182; SEQ ID No. 183; SEQ ID No. 184; SEQ ID No. 185; SEQ ID No. 186; SEQ ID No. 187; SEQ ID No. 188; SEQ ID No. 189; SEQ ID No. 190; SEQ ID No. 191; 35 SEQ ID No. 192; SEQ ID No. 194; SEQ ID No. 195; SEQ ID No. 196; SEQ ID No. 197; SEQ ID No. 198; SEQ ID No. 199; SEQ ID No. 200; SEQ ID No. 201; SEQ ID No. 202; SEQ ID No. 205;

SEQ ID No. 207; SEQ ID No. 208; SEQ ID No. 209; SEQ ID No. 210; SEQ ID No. 212; SEQ ID

No. 215; SEQ ID No. 219; SEQ ID No. 220; SEQ ID No. 224; SEQ ID No. 226; SEQ ID No. 227; SEQ ID No. 228; SEQ ID No. 231; SEQ ID No. 232; SEQ ID No. 233; SEQ ID No. 234; SEQ ID No. 235; SEQ ID No. 236; SEQ ID No. 238; SEQ ID No. 239; SEQ ID No. 240; SEQ ID No. 241; SEQ ID No. 242; SEQ ID No. 244; SEQ ID No. 247; SEQ ID No. 251; SEQ ID No. 252; 5 SEQ ID No. 253; SEQ ID No. 255; SEQ ID No. 256; SEQ ID No. 257; SEQ ID No. 258; SEQ ID No. 260; SEQ ID No. 262; SEQ ID No. 263; SEQ ID No. 266; SEQ ID No. 267; SEQ ID No. 268; SEQ ID No. 269; SEQ ID No. 270; SEQ ID No. 273; SEQ ID No. 274; SEQ ID No. 276; SEQ ID No. 278; SEQ ID No. 279; SEQ ID No. 280; SEQ ID No. 281; SEQ ID No. 282; SEQ ID No. 283; SEQ ID No. 284; SEQ ID No. 286; SEQ ID No. 287; SEQ ID No. 289; SEQ ID No. 290; SEQ ID 10 No. 291; SEQ ID No. 293; SEQ ID No. 294; SEQ ID No. 297; SEQ ID No. 304; SEQ ID No. 305; SEQ ID No. 307; SEQ ID No. 308; SEQ ID No. 309; SEQ ID No. 310; SEQ ID No. 311; SEQ ID No. 313; SEQ ID No. 314; SEQ ID No. 315; SEQ ID No. 316; SEQ ID No. 318; SEQ ID No. 319; SEQ ID No. 320; SEQ ID No. 321; SEQ ID No. 322; SEQ ID No. 323; SEQ ID No. 324; SEQ ID No. 325; SEQ ID No. 326; SEQ ID No. 331; SEQ ID No. 332; SEQ ID No. 336; SEQ ID No. 338; 15 -SEQ ID No. 339; SEQ ID No. 341; SEQ ID No. 344; SEQ ID No. 345; SEQ ID No. 346; SEQ ID No. 350; SEQ ID No. 352; SEQ ID No. 353; SEQ ID No. 356; SEQ ID No. 357; SEQ ID No. 358; SEQ ID No. 359; SEQ ID No. 360; SEQ ID No. 362; SEQ ID No. 365; SEQ ID No. 366; SEQ ID No. 367; SEQ ID No. 370; SEQ ID No. 372; SEQ ID No. 373; SEQ ID No. 376; SEQ ID No. 377; SEQ ID No. 378; SEQ ID No. 379; SEQ ID No. 381; SEQ ID No. 382; SEQ ID No. 383; SEQ ID 20 No. 384; SEQ ID No. 385; SEQ ID No. 386; SEQ ID No. 387; SEQ ID No. 390; SEQ ID No. 392; SEQ ID No. 393; SEQ ID No. 394; SEQ ID No. 396; SEQ ID No. 398; SEQ ID No. 399; SEQ ID No. 400; SEQ ID No. 404; SEQ ID No. 408; SEQ ID No. 410; SEQ ID No. 411; SEQ ID No. 413; SEQ ID No. 416; SEQ ID No. 417; SEQ ID No. 418; SEQ ID No. 420; SEQ ID No. 422; SEQ ID No. 424; SEQ ID No. 427; SEQ ID No. 428; SEQ ID No. 429; SEQ ID No. 430; SEQ ID No. 431; 25 SEQ ID No. 433; SEQ ID No. 434; SEQ ID No. 437; SEQ ID No. 440; SEQ ID No. 441; SEQ ID No. 442; SEQ ID No. 443; SEQ ID No. 444; SEQ ID No. 445; SEQ ID No. 447; SEQ ID No. 450; SEQ ID No. 451; SEQ ID No. 452; SEQ ID No. 455; SEQ ID No. 456; SEQ ID No. 459; SEQ ID No. 460; SEQ ID No. 461; SEQ ID No. 462; SEQ ID No. 463; SEQ ID No. 464; SEQ ID No. 465; SEQ ID No. 467; SEQ ID No. 469; SEQ ID No. 471; SEQ ID No. 474; SEQ ID No. 475; SEQ ID 30 No. 476; SEQ ID No. 477; SEQ ID No. 479; SEQ ID No. 482; SEQ ID No. 483; SEQ ID No. 484; SEQ ID No. 485; SEQ ID No. 486; SEQ ID No. 487; SEQ ID No. 488; SEQ ID No. 491; SEQ ID No. 493; SEQ ID No. 494; SEQ ID No. 497; SEQ ID No. 498; SEQ ID No. 499; SEQ ID No. 503; SEQ ID No. 508; SEQ ID No. 509; SEQ ID No. 510; SEQ ID No. 512; SEQ ID No. 514; SEQ ID No. 515; SEQ ID No. 516; SEQ ID No. 517; SEQ ID No. 518; SEQ ID No. 520; SEQ ID No. 521; 35 SEQ ID No. 523; SEQ ID No. 525; SEQ ID No. 527; SEQ ID No. 528; SEQ ID No. 529; SEQ ID No. 530; SEQ ID No. 531; SEQ ID No. 533; SEQ ID No. 534; SEQ ID No. 535; SEQ ID No. 536; SEQ ID No. 537; SEQ ID No. 540; SEQ ID No. 541; SEQ ID No. 543; SEQ ID No. 544; SEQ ID

No. 545; SEQ ID No. 546; SEQ ID No. 548; SEQ ID No. 549; SEQ ID No. 551; SEQ ID No. 553; SEQ ID No. 554; SEQ ID No. 555; SEQ ID No. 556; SEQ ID No. 557; SEQ ID No. 558; SEQ ID No. 559; SEQ ID No. 560; SEQ ID No. 562; SEQ ID No. 563; SEQ ID No. 564; SEQ ID No. 565; SEQ ID No. 566; SEQ ID No. 569; SEQ ID No. 571; SEQ ID No. 573; SEQ ID No. 576; 5 SEQ ID No. 577; SEQ ID No. 581; SEQ ID No. 583; SEQ ID No. 584; SEQ ID No. 585; SEO ID No. 586; SEQ ID No. 588; SEQ ID No. 591; SEQ ID No. 592; SEQ ID No. 594; SEQ ID No. 595; SEQ ID No. 596; SEQ ID No. 597; SEQ ID No. 599; SEQ ID No. 600; SEQ ID No. 603; SEQ ID No. 605; SEQ ID No. 608; SEQ ID No. 614; SEQ ID No. 615; SEQ ID No. 620; SEQ ID No. 621; SEQ ID No. 622; SEQ ID No. 623; SEQ ID No. 624; SEQ ID No. 625; SEQ ID No. 629; SEQ ID 10 No. 630; SEQ ID No. 631; SEQ ID No. 633; SEQ ID No. 634; SEQ ID No. 637; SEQ ID No. 642; SEQ ID No. 644; SEQ ID No. 645; SEQ ID No. 647; SEQ ID No. 648; SEQ ID No. 652; SEQ ID No. 654; SEQ ID No. 655; SEQ ID No. 657; SEQ ID No. 658; SEQ ID No. 659; SEQ ID No. 660; SEQ ID No. 661; SEQ ID No. 664; SEQ ID No. 665; SEQ ID No. 666; SEQ ID No. 667; SEQ ID No. 670; SEQ ID No. 671; SEQ ID No. 672; SEQ ID No. 673; SEQ ID No. 674; SEQ ID No. 676; 15 SEQ ID No. 679; SEQ ID No. 681; SEQ ID No. 684; SEQ ID No. 687; SEQ ID No. 688; SEQ ID No. 689; SEQ ID No. 690; SEQ ID No. 693; SEQ ID No. 694; SEQ ID No. 695; SEQ ID No. 696; SEQ ID No. 697; SEQ ID No. 698; SEQ ID No. 699; SEQ ID No. 700; SEQ ID No. 701; SEQ ID No. 703; SEQ ID No. 705; SEQ ID No. 706; SEQ ID No. 707; SEQ ID No. 708; SEQ ID No. 710; SEQ ID No. 712; SEQ ID No. 715; SEQ ID No. 716; SEQ ID No. 717; SEQ ID No. 718; SEQ ID 20 No. 719; SEQ ID No. 721; SEQ ID No. 722; SEQ ID No. 723; SEQ ID No. 725; SEQ ID No. 726; SEQ ID No. 727; SEQ ID No. 728; SEQ ID No. 729; SEQ ID No. 730; SEQ ID No. 731; SEQ ID No. 733; SEQ ID No. 736; SEQ ID No. 737; SEQ ID No. 738; SEQ ID No. 740; SEQ ID No. 741; SEQ ID No. 742; SEQ ID No. 743; SEQ ID No. 747; SEQ ID No. 748; SEQ ID No. 750; SEQ ID No. 752; SEQ ID No. 754; SEQ ID No. 755; SEQ ID No. 756; SEQ ID No. 757; SEQ ID No. 759; 25 SEQ ID No. 760; SEQ ID No. 761; SEQ ID No. 762; SEQ ID No. 763; SEQ ID No. 764; SEQ ID No. 765; SEQ ID No. 766; SEQ ID No. 767; SEQ ID No. 768; SEQ ID No. 772; SEQ ID No. 774; SEQ ID No. 775; SEQ ID No. 777; SEQ ID No. 781; SEQ ID No. 783; SEQ ID No. 788; SEQ ID No. 791; SEQ ID No. 792; SEQ ID No. 793; SEQ ID No. 794; SEQ ID No. 795; SEQ ID No. 796; SEQ ID No. 797; SEQ ID No. 798; SEQ ID No. 799; SEQ ID No. 802; SEQ ID No. 803; SEQ ID 30 No. 806; SEQ ID No. 807; SEQ ID No. 808; SEQ ID No. 809; SEQ ID No. 810; SEQ ID No. 811; SEQ ID No. 813; SEQ ID No. 814; SEQ ID No. 815; SEQ ID No. 816; SEQ ID No. 817; SEQ ID No. 819; SEQ ID No. 820; SEQ ID No. 821; SEQ ID No. 823; SEQ ID No. 824; SEQ ID No. 827; SEQ ID No. 829; SEQ ID No. 830; SEQ ID No. 831; SEQ ID No. 833; SEQ ID No. 834; SEQ ID No. 835; SEQ ID No. 837; SEQ ID No. 844; SEQ ID No. 845; SEQ ID No. 846; SEQ ID No. 847; 35 SEQ ID No. 848; SEQ ID No. 849; SEQ ID No. 850; SEQ ID No. 851; SEQ ID No. 852; SEQ ID No. 854; SEQ ID No. 855; SEQ ID No. 856; SEQ ID No. 857; SEQ ID No. 859; SEQ ID No. 860; SEQ ID No. 862; SEQ ID No. 865; SEQ ID No. 866; SEQ ID No. 868; SEQ ID No. 869; SEQ ID

No. 870; SEQ ID No. 871; SEQ ID No. 872; SEQ ID No. 874; SEQ ID No. 877; SEQ ID No. 878; SEQ ID No. 879; SEQ ID No. 880; SEQ ID No. 881; SEQ ID No. 882; SEQ ID No. 884; SEQ ID No. 885; SEQ ID No. 888; SEQ ID No. 889; SEQ ID No. 890; SEQ ID No. 891; SEQ ID No. 892; SEQ ID No. 894; SEQ ID No. 895; SEQ ID No. 896; SEQ ID No. 897; SEQ ID No. 899; 5 SEQ ID No. 900; SEQ ID No. 902; SEQ ID No. 903; SEQ ID No. 904; SEQ ID No. 905; SEQ ID No. 909; SEQ ID No. 910; SEQ ID No. 912; SEQ ID No. 913; SEQ ID No. 914; SEQ ID No. 915; SEQ ID No. 917; SEQ ID No. 918; SEQ ID No. 919; SEQ ID No. 921; SEQ ID No. 923; SEQ ID No. 924; SEQ ID No. 926; SEQ ID No. 927; SEQ ID No. 928; SEQ ID No. 929; SEQ ID No. 930; SEQ ID No. 931; SEQ ID No. 937; SEQ ID No. 938; SEQ ID No. 939; SEQ ID No. 941; SEQ ID 10 No. 943; SEQ ID No. 948; SEQ ID No. 951; SEQ ID No. 952; SEQ ID No. 953; SEQ ID No. 958; SEQ ID No. 960; SEQ ID No. 963; SEQ ID No. 964; SEQ ID No. 965; SEQ ID No. 968; SEQ ID No. 970; SEQ ID No. 974; SEQ ID No. 975; SEQ ID No. 977; SEQ ID No. 979; SEQ ID No. 980; SEQ ID No. 981; SEQ ID No. 983; SEQ ID No. 984; SEQ ID No. 985; SEQ ID No. 987; SEQ ID. No. 989; SEQ ID No. 992; SEQ ID No. 993; SEQ ID No. 997; SEQ ID No. 998; SEQ ID No. 999; 15. SEQ ID No. 1001; SEQ ID No. 1002; SEQ ID No. 1004; SEQ ID No. 1005; SEQ ID No. 1009; SEQ ID No. 1013; SEQ ID No. 1014; SEQ ID No. 1015; SEQ ID No. 1016; SEQ ID No. 1019; SEQ ID No. 1021; SEQ ID No. 1023; SEQ ID No. 1024; SEQ ID No. 1029; SEQ ID No. 1031; SEQ ID No. 1033; SEQ ID No. 1034; SEQ ID No. 1039; SEQ ID No. 1041; SEQ ID No. 1042; SEQ ID No. 1045; SEQ ID No. 1047; SEQ ID No. 1049; SEQ ID No. 1051; SEQ ID No. 1052; 20 SEQ ID No. 1053; SEQ ID No. 1054; SEQ ID No. 1056; SEQ ID No. 1059; SEQ ID No. 1061; SEQ ID No. 1062; SEQ ID No. 1063; SEQ ID No. 1064; SEQ ID No. 1065; SEQ ID No. 1067; SEQ ID No. 1075; SEQ ID No. 1077; SEQ ID No. 1078; SEQ ID No. 1079; SEQ ID No. 1080; SEQ ID No. 1081; SEQ ID No. 1089; SEQ ID No. 1095; SEQ ID No. 1097; SEQ ID No. 1098; SEQ ID No. 1099; SEQ ID No. 1101; SEQ ID No. 1102; SEQ ID No. 1103; SEQ ID No. 1106; 25 SEQ ID No. 1107; SEQ ID No. 1108; SEQ ID No. 1109; SEQ ID No. 1110; SEQ ID No. 1113; SEQ ID No. 1116; SEQ ID No. 1118; SEQ ID No. 1119; SEQ ID No. 1121; SEQ ID No. 1123; SEQ ID No. 1124; SEQ ID No. 1126; SEQ ID No. 1128; SEQ ID No. 1130; SEQ ID No. 1131; SEQ ID No. 1133; SEQ ID No. 1134; SEQ ID No. 1136; SEQ ID No. 1137 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* transmembrane polypeptide or one of its respective fragments, having between 4 and 6 transmembrane domains, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 5; SEQ ID No. 7; SEQ ID No. 8; SEQ ID No. 15; SEQ ID No. 36; SEQ ID No. 38; SEQ ID No. 51; SEQ ID No. 55; SEQ ID No. 58; SEQ ID No. 67; SEQ ID No. 70; SEQ ID No. 81; SEQ ID No. 97; SEQ ID No. 110; SEQ ID No. 111; SEQ ID No. 115; SEQ ID No. 119; SEQ ID-No. 126; SEQ ID No. 128; SEQ ID No. 148; SEQ ID No. 155; SEQ ID No. 163; SEQ ID

No. 165; SEQ ID No. 168; SEQ ID No. 169; SEQ ID No. 171; SEQ ID No. 172; SEQ ID No. 174; SEQ ID No. 177; SEQ ID No. 181; SEQ ID No. 193; SEQ ID No. 203; SEQ ID No. 213; SEQ ID No. 214; SEQ ID No. 216; SEQ ID No. 217; SEQ ID No. 221; SEQ ID No. 222; SEQ ID No. 225; SEQ ID No. 229; SEQ ID No. 243; SEQ ID No. 246; SEQ ID No. 248; SEQ ID No. 254; 5 SEQ ID No. 261; SEQ ID No. 285; SEQ ID No. 288; SEQ ID No. 292; SEQ ID No. 296; SEQ ID No. 298; SEQ ID No. 299; SEQ ID No. 301; SEQ ID No. 303; SEQ ID No. 317; SEQ ID No. 328; SEQ ID No. 329; SEQ ID No. 351; SEQ ID No. 354; SEQ ID No. 355; SEQ ID No. 364; SEQ ID No. 371; SEQ ID No. 374; SEQ ID No. 375; SEQ ID No. 391; SEQ ID No. 395; SEQ ID No. 401; SEQ ID No. 403; SEQ ID No. 405; SEQ ID No. 409; SEQ ID No. 414; SEQ ID No. 419; SEQ ID 10 No. 421; SEQ ID No. 423; SEQ ID No. 425; SEQ ID No. 438; SEQ ID No. 448; SEQ ID No. 453; SEQ ID No. 458; SEQ ID No. 466; SEQ ID No. 468; SEQ ID No. 470; SEQ ID No. 480; SEQ ID No. 489; SEQ ID No. 490; SEQ ID No. 496; SEQ ID No. 501; SEQ ID No. 504; SEQ ID No. 505; SEQ ID No. 506; SEQ ID No. 511; SEQ ID No. 513; SEQ ID No. 519; SEQ ID No. 526; SEQ ID No. 532; SEQ ID No. 538; SEQ ID No. 539; SEQ ID No. 547; SEQ ID No. 550; SEQ ID No. 561; 15 SEQ ID No. 568; SEQ ID No. 570; SEQ ID No. 574; SEQ ID No. 578; SEQ ID No. 579; SEQ ID No. 580; SEQ ID No. 582; SEQ ID No. 589; SEQ ID No. 593; SEQ ID No. 598; SEQ ID No. 601; SEQ ID No. 604; SEQ ID No. 610; SEQ ID No. 613; SEQ ID No. 617; SEQ ID No. 626; SEQ ID No. 632; SEQ ID No. 635; SEQ ID No. 638; SEQ ID No. 640; SEQ ID No. 641; SEQ ID No. 646; SEQ ID No. 649; SEQ ID No. 650; SEQ ID No. 651; SEQ ID No. 686; SEQ ID No. 711; SEQ ID 20 No. 724; SEQ ID No. 732; SEQ ID No. 734; SEQ ID No. 744; SEQ ID No. 745; SEQ ID No. 749; SEQ ID No. 751; SEQ ID No. 769; SEQ ID No. 770; SEQ ID No. 771; SEQ ID No. 773; SEQ ID No. 776; SEQ ID No. 779; SEQ ID No. 780; SEQ ID No. 785; SEQ ID No. 787; SEQ ID No. 789; SEQ ID No. 801; SEQ ID No. 805; SEQ ID No. 812; SEQ ID No. 822; SEQ ID No. 825; SEQ ID No. 826; SEQ ID No. 839; SEQ ID No. 841; SEQ ID No. 843; SEQ ID No. 853; SEQ ID No. 861; 25 SEQ ID No. 875; SEQ ID No. 876; SEQ ID No. 886; SEQ ID No. 893; SEQ ID No. 898; SEQ ID No. 906; SEQ ID No. 907; SEQ ID No. 908; SEQ ID No. 920; SEQ ID No. 922; SEQ ID No. 925; SEQ ID No. 933; SEQ ID No. 935; SEQ ID No. 936; SEQ ID No. 944; SEQ ID No. 946; SEQ ID No. 947; SEQ ID No. 954; SEQ ID No. 959; SEQ ID No. 961; SEQ ID No. 966; SEQ ID No. 967; SEQ ID No. 972; SEQ ID No. 978; SEQ ID No. 995; SEQ ID No. 996; SEQ ID No. 1000; SEQ ID 30 No. 1003; SEQ ID No. 1010; SEQ ID No. 1011; SEQ ID No. 1012; SEQ ID No. 1017; SEQ ID No. 1020; SEQ ID No. 1030; SEQ ID No. 1036; SEQ ID No. 1038; SEQ ID No. 1043; SEQ ID No. 1046; SEQ ID No. 1048; SEQ ID No. 1050; SEQ ID No. 1058; SEQ ID No. 1071; SEQ ID No. 1073; SEQ ID No. 1084; SEQ ID No. 1085; SEQ ID No. 1086; SEQ ID No. 1087; SEQ ID No. 1091; SEQ ID No. 1092; SEQ ID No. 1094; SEQ ID No. 1096; SEQ ID No. 1100; SEQ ID 35 No. 1104; SEQ ID No. 1111; SEQ ID No. 1112; SEQ ID No. 1114; SEQ ID No. 1117; SEQ ID No. 1122; SEQ ID No. 1125 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention,

characterized in that it is a *Chlamydia pneumoniae* transmembrane polypeptide or one of its representative fragments, having at least 7 transmembrane domains, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 17; SEQ ID No. 52; SEQ ID No. 68; SEQ ID No. 83; SEQ ID No. 87; SEQ ID No. 109; 5 SEQ ID No. 112; SEQ ID No. 113; SEQ ID No. 120; SEQ ID No. 121; SEQ ID No. 127; SEQ ID No. 153; SEQ ID No. 204; SEQ ID No. 211; SEQ ID No. 218; SEQ ID No. 223; SEQ ID No. 275; SEO ID No. 277; SEQ ID No. 295; SEQ ID No. 300; SEQ ID No. 302; SEQ ID No. 306; SEQ ID No. 327; SEQ ID No. 335; SEQ ID No. 342; SEQ ID No. 343; SEQ ID No. 347; SEQ ID No. 349; SEQ ID No. 361; SEQ ID No. 363; SEQ ID No. 369; SEQ ID No. 380; SEQ ID No. 388; SEQ ID 10 No. 389; SEQ ID No. 397; SEQ ID No. 415; SEQ ID No. 432; SEQ ID No. 439; SEQ ID No. 446; SEO ID No. 449; SEQ ID No. 472; SEQ ID No. 478; SEQ ID No. 500; SEQ ID No. 522; SEQ ID No. 524; SEQ ID No. 567; SEQ ID No. 575; SEQ ID No. 602; SEQ ID No. 606; SEQ ID No. 609; SEO ID No. 636; SEQ ID No. 639; SEQ ID No. 643; SEQ ID No. 653; SEQ ID No. 668; SEQ ID No. 692; SEQ ID No. 702; SEQ ID No. 704; SEQ ID No. 713; SEQ ID No. 720; SEQ ID No. 778; 15. SEQ ID No. 784; SEQ ID No. 800; SEQ ID No. 836; SEQ ID No. 838; SEQ ID No. 842; SEQ ID No. 864; SEQ ID No. 867; SEQ ID No. 883; SEQ ID No. 901; SEQ ID No. 916; SEQ ID No. 932; SEQ ID No. 934; SEQ ID No. 940; SEQ ID No. 942; SEQ ID No. 950; SEQ ID No. 956; SEQ ID No. 971; SEQ ID No. 973; SEQ ID No. 976; SEQ ID No. 988; SEQ ID No. 994; SEQ ID No. 1018; SEQ ID No. 1028; SEQ ID No. 1035; SEQ ID No. 1037; SEQ ID No. 1044; SEQ ID No. 1055; 20 SEQ ID No. 1057; SEQ ID No. 1068; SEQ ID No. 1069; SEQ ID No. 1070; SEQ ID No. 1072; SEQ ID No. 1082; SEQ ID No. 1088; SEQ ID No. 1105; SEQ ID No. 1132; SEQ ID No. 1135 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, in that it is a Chlamydia pneumoniae surface exposed polypeptide or one of its representative fragments, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 15, SEQ ID No. 25, SEQ ID No. 26, SEQ ID No. 27, SEQ ID No. 28, SEQ ID No. 29, SEQ ID No. 30, SEQ ID No. 31, SEQ ID No. 32, SEQ ID No. 33, SEQ ID No. 35, SEQ ID No. 36, SEQ ID No. 1257, SEQ ID No. 280, SEQ ID No. 291, SEQ ID No. 314, SEQ ID No. 354, SEQ ID No. 380, SEQ ID No. 1266, SEQ ID No. 466, SEQ ID No. 467, SEQ ID No. 468, SEQ ID No. 469, SEQ ID No. 470, SEQ ID No. 472, SEQ ID No. 474, SEQ ID No. 476, SEQ ID No. 477, SEQ ID No. 478, SEQ ID No. 479, SEQ ID No. 480, SEQ ID No. 482, SEQ ID No. 483, SEQ ID No. 485, SEQ ID

- 478, SEQ ID No. 479, SEQ ID No. 480, SEQ ID No. 482, SEQ ID No. 483, SEQ ID No. 485, SEQ ID No. 486, SEQ ID No. 500, SEQ ID No. 501, SEQ ID No. 503, SEQ ID No. 504, SEQ ID No. 505, SEQ ID No. 506, SEQ ID No. 507, SEQ ID No. 1268, SEQ ID No. 1269, SEQ ID No. 543, SEQ ID No. 544, SEQ ID No. 578, SEQ ID No. 579, SEQ ID No. 580, SEQ ID No. 581, SEQ ID No. 595,
- 35 SEQ ID No. 596, SEQ ID No. 597, SEQ ID No. 1271, SEQ ID No. 633, SEQ ID No. 637, SEQ ID No. 699, SEQ ID No. 706, SEQ ID No. 737, SEQ ID No. 744, SEQ ID No. 1273, SEQ ID No. 751, SEQ ID No. 775, SEQ ID No. 776, SEQ ID No. 777, SEQ ID No. 793, SEQ ID No. 815, SEQ ID No.

830, SEQ ID No. 1221, SEQ ID No. 849, SEQ ID No. 851, SEQ ID No. 852, SEQ ID No. 874, SEQ ID No. 891, SEQ ID No. 922, SEQ ID No. 940, SEQ ID No. 1231, SEQ ID No. 1281, SEQ ID No. 1035, SEQ ID No. 1079, SEQ ID No. 1087, SEQ ID No. 1108, and one of their representative fragments.

- Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* lipoprotein or one of its representative fragments, and in that it is chosen from the polypeptides having the following sequences:
 - SEQ ID No. 3, SEQ ID No. 10, SEQ ID No. 11, SEQ ID No. 16, SEQ ID No. 1254, SEQ ID No. 1255, SEQ ID No. 38, SEQ ID No. 1256, SEQ ID No. 62, SEQ ID No. 85, SEQ ID No. 1258, SEQ ID
- 10 No. 115, SEQ ID No. 1151, SEQ ID No. 151, SEQ ID No. 1259, SEQ ID No. 173, SEQ ID No. 1261, SEQ ID No. 186, SEQ ID No. 194, SEQ ID No. 205, SEQ ID No. 214, SEQ ID No. 216, SEQ ID No. 217, SEQ ID No. 238, SEQ ID No. 1177, SEQ ID No. 280, SEQ ID No. 291, SEQ ID No. 317, SEQ ID No. 327, SEQ ID No. 354, SEQ ID No. 364, SEQ ID No. 367, SEQ ID No. 414, SEQ ID No. 432, SEQ ID No. 1192, SEQ ID No. 460, SEQ ID No. 1267, SEQ ID No. 1268, SEQ ID No. 520, SEQ ID
- 15 No. 536, SEQ ID No. 1270, SEQ ID No. 576, SEQ ID No. 597, SEQ ID No. 603, SEQ ID No. 609, SEQ ID No. 637, SEQ ID No. 1272, SEQ ID No. 652, SEQ ID No. 1213, SEQ ID No. 699, SEQ ID No. 705, SEQ ID No. 706, SEQ ID No. 708, SEQ ID No. 711, SEQ ID No. 727, SEQ ID No. 1274, SEQ ID No. 800, SEQ ID No. 814, SEQ ID No. 825, SEQ ID No. 829, SEQ ID No. 830, SEQ ID No. 831, SEQ ID No. 844, SEQ ID No. 849, SEQ ID No. 1275, SEQ ID No. 1276, SEQ ID No. 1277, SEQ
- 20 ID No. 872, SEQ ID No. 878, SEQ ID No. 880, SEQ ID No. 891, SEQ ID No. 892, SEQ ID No. 1278, SEQ ID No. 1279, SEQ ID No. 1280, SEQ ID No. 941, SEQ ID No. 942, SEQ ID No. 1282, SEQ ID No. 1283, SEQ ID No. 952, SEQ ID No. 988, SEQ ID No. 998, SEQ ID No. 1009, SEQ ID No. 1285, SEQ ID No. 1235, SEQ ID No. 1028, SEQ ID No. 1056, SEQ ID No. 1070, SEQ ID No. 1287, SEQ ID No. 1087, SEQ ID No. 1288, SEQ ID No. 1289, SEQ ID No. 1098, SEQ ID No. 1246, SEQ ID No.
- 25 1291, SEQ ID No. 1108, SEQ ID No. 1109, SEQ ID No. 1112, SEQ ID No. 1133, and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, in that it is a Chlamydia pneumoniae polypeptide involved in lipopolysaccharide (LPS) biosynthesis, and in that it is chosen from the polypeptides having the following sequences:

30 SEQ ID No. 316, SEQ ID No. 564, SEQ ID No. 610, SEQ ID No. 647, SEQ ID No. 1211, SEQ ID No. 688, SEQ ID No. 924, and one of their representative fragments.

Preferably, the invention relates to additional LPS-related polypeptides according to the invention, in that it is:

(a) a Chlamydia pneumoniae KDO (3-deoxy-D-manno-octylosonic acid)-related polypeptide or one of its representative fragments, and in that it is chosen from the polypeptides having the following sequences: SEQ ID No. 177, SEQ ID No. 1156, SEQ ID No. 245, SEQ ID No. 767, and one of their representative fragments;

- (b) a Chlamydia pneumoniae phosphomannomutase-related polypeptide or one of its representative fragments, and in that it is chosen from the polypeptides having the following sequences: SEQ ID No. 74, and its representative fragment;
- (c) a Chlamydia pneumoniae phosphoglucomutase-related polypeptide or one of its representative fragments, and in that it is chosen from the polypeptides having the following sequences: SEQ ID No. 1286, SEQ ID No. 1039, and its representative fragment; and
 - (d) a *Chlamydia pneumoniae* lipid A component-related polypeptide or one of its representative fragments, and in that it is chosen from the polypeptides having the following sequences: SEQ ID No. 689, SEQ ID No. 690, SEQ ID No. 691, SEQ ID No. 1037, and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments that contains an RGD sequence and is also an outer membrane protein, and in that it is chosen from the polypeptides having the following sequences: SEQ ID No. 468 and its representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, in that it is a Chlamydia pneumoniae polypeptide or one of its representative fragments that contains an RGD sequence that shows homology to cds1, cds2, and copN type III virulence loci in Chlamydia Psitacci, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 350 and its representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, in that it is a Chlamydia pneumoniae polypeptide or one of its representative fragments that is cysteine-rich and contains RGD sequence, and in that it is chosen from the polypeptides having the following sequences: SEQ ID No. 1290, SEQ ID No. 6846, SEQ ID No. 6848, and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, in that it is a Chlamydia pneumoniae outer membrane polypeptide that contains cysteines in their first 30 amino acids and also contain an RGD sequence, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 105, SEQ ID No. 106, SEQ ID No. 114, SEQ ID No. 170, SEQ ID No. 171, SEQ ID No. 30 1264, SEQ ID No. 268, SEQ ID No. 1265, SEQ ID No. 350, SEQ ID No. 393, SEQ ID No. 394, SEQ ID No. 451, SEQ ID No. 452, SEQ ID No. 453, SEQ ID No. 473, SEQ ID No. 499, SEQ ID No. 515, SEQ ID No. 519, SEQ ID No. 525, SEQ ID No. 526, SEQ ID No. 538, SEQ ID No. 611, SEQ ID No. 645, SEQ ID No. 686, SEQ ID No. 700, SEQ ID No. 746, SEQ ID No. 755, SEQ ID No. 756, SEQ ID No. 757, SEQ ID No. 789, SEQ ID No. 814, SEQ ID No. 855, SEQ ID No. 856, SEQ ID No. 878,

35 SEQ ID No. 957, SEQ ID No. 958, SEQ ID No. 989, SEQ ID No. 1290, and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, in that it is a

No. 190, SEQ ID No. 1161, SEQ ID No. 1162, SEO ID No. 191, SEQ ID No. 192, SEQ ID No. 194, SEQ ID No. 195, SEQ ID No. 1163, SEQ ID No. 196, SEQ ID No. 201, SEQ ID No. 202, SEQ ID No. 209, SEQ ID No. 212, SEQ ID No. 221, SEQ ID No. 224, SEQ ID No. 1167, SEQ ID No. 226, SEQ ID No. 227, SEQ ID No. 228, SEQ ID No. 229, SEQ ID No. 230, SEQ ID No. 231, SEQ ID No. 5 232, SEQ ID No. 1169, SEQ ID No. 1170, SEQ ID No. 1171, SEQ ID No. 234, SEQ ID No. 235, SEQ ID No. 236, SEQ ID No. 1172, SEQ ID No. 243, SEQ ID No. 251, SEQ ID No. 252, SEQ ID No. 1176, SEQ ID No. 253, SEQ ID No. 255, SEQ ID No. 254, SEQ ID No. 256, SEQ ID No. 1177, SEQ ID No. 1178; SEQ ID No. 262, SEQ ID No. 263, SEQ ID No. 1264, SEQ ID No. 278, SEQ ID No. 279, SEQ ID No. 1180, SEQ ID No. 280, SEQ ID No. 290, SEQ ID No. 291, SEQ ID No. 292, SEQ 10 ID No. 296, SEQ ID No. 1181, SEQ ID No. 297, SEQ ID No. 298, SEQ ID No. 300, SEQ ID No. 1265, SEQ ID No. 322, SEQ ID No. 324, SEQ ID No. 325, SEQ ID No. 370, SEQ ID No. 1186, SEQ ID No. 371, SEQ ID No. 372, SEQ ID No. 1187, SEQ ID No. 373, SEQ ID No. 378, SEQ ID No. 1266, SEQ ID No. 382, SEQ ID No. 383, SEQ ID No. 384, SEQ ID No. 385, SEQ ID No. 386, SEQ ID No. 1188, SEQ ID No. 1189, SEQ ID No. 391, SEQ ID No. 392, SEQ ID No. 398, SEQ ID No. 15 _400, SEQ ID No. 403, SEQ ID No. 1191, SEQ ID No. 423, SEQ ID No. 435, SEQ ID No. 445, SEQ ID No. 450, SEQ ID No. 1193, SEQ ID No. 456, SEQ ID No. 460, SEQ ID No. 461, SEQ ID No. 465, SEQ ID No. 1196, SEQ ID No. 471, SEQ ID No. 473, SEQ ID No. 475, SEQ ID No. 481, SEQ ID No. 484, SEQ ID No. 487, SEQ ID No. 488, SEQ ID No. 489, SEQ ID No. 490, SEQ ID No. 491, SEO ID No. 492, SEO ID No. 493, SEO ID No. 494, SEO ID No. 495, SEO ID No. 496, SEO ID No. 20 497, SEQ ID No. 498, SEQ ID No. 499, SEQ ID No. 502, SEQ ID No. 1267, SEQ ID No. 1268, SEQ ID No. 508, SEQ ID No. 510, SEQ ID No. 509, SEQ ID No. 512, SEQ ID No. 515, SEQ ID No. 519, SEQ ID No. 1197, SEQ ID No. 521, SEQ ID No. 1198, SEQ ID No. 522, SEQ ID No. 524, SEQ ID No. 528, SEQ ID No. 534, SEQ ID No. 537, SEQ ID No. 1269, SEQ ID No. 1270, SEQ ID No. 548, SEQ ID No. 551, SEQ ID No. 557, SEQ ID No. 1201, SEQ ID No. 1203, SEQ ID No. 562, SEQ ID 25 No. 566, SEQ ID No. 593, SEQ ID No. 595, SEQ ID No. 600, SEQ ID No. 1271, SEQ ID No. 604, SEQ ID No. 611, SEQ ID No. 612, SEQ ID No. 614, SEQ ID No. 616, SEQ ID No. 625, SEQ ID No. 627, SEQ ID No. 628, SEQ ID No. 629, SEQ ID No. 631, SEQ ID No. 641, SEQ ID No. 1272, SEQ ID No. 648, SEQ ID No. 1212, SEQ ID No. 663, SEQ ID No. 685, SEQ ID No. 707, SEQ ID No. 714, SEQ ID No. 715, SEQ ID No. 716, SEQ ID No. 717, SEQ ID No. 722, SEQ ID No. 746, SEQ ID No. 30 1273, SEQ ID No. 761, SEQ ID No. 764, SEQ ID No. 770, SEQ ID No. 1217, SEQ ID No. 783, SEQ ID No. 1274, SEQ ID No. 803, SEQ ID No. 815, SEQ ID No. 1220, SEQ ID No. 835, SEQ ID No. 1221, SEQ ID No. 844, SEQ ID No. 845, SEQ ID No. 846, SEQ ID No. 847, SEQ ID No. 848, SEQ ID No. 849, SEQ ID No. 850, SEQ ID No. 851, SEQ ID No. 1275, SEQ ID No. 852, SEQ ID No. 862, SEQ ID No. 1276, SEQ ID No. 1277, SEQ ID No. 873, SEQ ID No. 1223, SEQ ID No. 892, SEQ ID 35 No. 919, SEQ ID No. 1225, SEQ ID No. 1278, SEQ ID No. 926, SEQ ID No. 1228, SEQ ID No. 1229, SEQ ID No. 1230, SEQ ID No. 1279, SEQ ID No. 1281, SEQ ID No. 1282, SEQ ID No. 1283, SEQ ID-No. 948, SEQ ID No. 950, SEQ ID No. 949, SEQ ID No. 951, SEQ ID No. 980, SEQ ID No.

982, SEQ ID No. 1233, SEQ ID No. 999, SEQ ID No. 1000, SEQ ID No. 1001, SEQ ID No. 1002, SEQ ID No. 1008, SEQ ID No. 1285, SEQ ID No. 1235, SEQ ID No. 1016, SEQ ID No. 1019, SEQ ID No. 1027, SEQ ID No. 1036, SEQ ID No. 1241, SEQ ID No. 1048, SEQ ID No. 1049, SEQ ID No. 1050, SEQ ID No. 1053, SEQ ID No. 1054, SEQ ID No. 1064, SEQ ID No. 1076, SEQ ID No. 1091, SEQ ID No. 1288, SEQ ID No. 1093, SEQ ID No. 1289, SEQ ID No. 1101, SEQ ID No. 1103, SEQ ID No. 1245, SEQ ID No. 1246, SEQ ID No. 1247, SEQ ID No. 1290, SEQ ID No. 1291, SEQ ID No. 1115, SEQ ID No. 1116, SEQ ID No. 1118, SEQ ID No. 1120, SEQ ID No. 1249, SEQ ID No. 1121, SEQ ID No. 1250, SEQ ID No. 1126, SEQ ID No. 1251, SEQ ID No. 1127, SEQ ID No. 1128, SEQ ID No. 1130, SEQ ID No. 1129, SEQ ID No. 1131, SEQ ID No. 1136, SEQ ID No. 1253, SEQ ID No. 106844, SEQ ID No. 6846, SEQ ID No. 6847, SEQ ID No. 6848, and one of their representative fragments

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the intermediate metabolism, in particular in the metabolism of sugars and/or of cofactors, and in that it is chosen from the polypeptides having the following sequences:

- SEQ ID No. 2; SEQ ID No. 55; SEQ ID No. 56; SEQ ID No. 69; SEQ ID No. 75; SEQ ID No. 80; SEQ ID No. 100; SEQ ID No. 110; SEQ ID No. 114; SEQ ID No. 120; SEQ ID No. 121; SEQ ID No. 157; SEQ ID No. 160; SEQ ID No. 161; SEQ ID No. 172; SEQ ID No. 180; SEQ ID No. 181; SEQ ID No. 198; SEQ ID No. 200; SEQ ID No. 225; SEQ ID No. 248; SEQ ID No. 249; SEQ ID No. 276; SEQ ID No. 277; SEQ ID No. 318; SEQ ID No. 319; SEQ ID No. 320; SEQ ID No. 323;
- SEQ ID No. 331; SEQ ID No. 347; SEQ ID No. 375; SEQ ID No. 376; SEQ ID No. 381; SEQ ID No. 393; SEQ ID No. 394; SEQ ID No. 395; SEQ ID No. 396; SEQ ID No. 409; SEQ ID No. 446; SEQ ID No. 447; SEQ ID No. 448; SEQ ID No. 449; SEQ ID No. 513; SEQ ID No. 516; SEQ ID No. 571; SEQ ID No. 647; SEQ ID No. 662; SEQ ID No. 697; SEQ ID No. 718; SEQ ID No. 793;
- 25 SEQ ID No. 794; SEQ ID No. 808; SEQ ID No. 809; SEQ ID No. 838; SEQ ID No. 839; SEQ ID No. 840; SEQ ID No. 853; SEQ ID No. 854; SEQ ID No. 918; SEQ ID No. 923; SEQ ID No. 929; SEQ ID No. 931; SEQ ID No. 938; SEQ ID No. 939; SEQ ID No. 958; SEQ ID No. 959; SEQ ID No. 960; SEQ ID No. 966; SEQ ID No. 995; SEQ ID No. 1021; SEQ ID No. 1040; SEQ ID No. 1041; SEQ ID No. 1042; SEQ ID No. 1085; SEQ ID No. 1100; SEQ ID No. 1102; SEQ ID
- 30 No. 1117; SEQ ID No. 1118; SEQ ID No. 1119; SEQ ID No. 1120; SEQ ID No. 1135 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the intermediate metabolism of nucleotides or nucleic acids, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 77; SEQ ID No. 78; SEQ ID No. 138; SEQ ID No. 189; SEQ ID No. 190; SEQ ID No. 233; SEQ ID No. 246; SEQ ID No. 338; SEQ ID No. 412; SEQ ID No. 421; SEQ ID No. 438;

SEQ ID No. 607; SEQ ID No. 648; SEQ ID No. 657; SEQ ID No. 740; SEQ ID No. 783; SEQ ID No. 967; SEQ ID No. 989; SEQ ID No. 990; SEQ ID No. 992; SEQ ID No. 1011; SEQ ID No. 1058; SEQ ID No. 1059; SEQ ID No. 1073; SEQ ID No. 1074 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the metabolism of nucleic acids, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 14; SEQ ID No. 59; SEQ ID No. 70; SEQ ID No. 71; SEQ ID No. 97; SEQ ID No. 113; SEQ ID No. 137; SEQ ID No. 141; SEQ ID No. 169; SEQ ID No. 285; SEQ ID No. 287; SEQ ID No. 288; SEQ ID No. 313; SEQ ID No. 326; SEQ ID No. 358; SEQ ID No. 411; SEQ ID No. 443; SEQ ID No. 548; SEQ ID No. 569; SEQ ID No. 601; SEQ ID No. 651; SEQ ID No. 654; SEQ ID No. 658; SEQ ID No. 659; SEQ ID No. 664; SEQ ID No. 665; SEQ ID No. 694; SEQ ID No. 698; SEQ ID No. 704; SEQ ID No. 760; SEQ ID No. 762; SEQ ID No. 763; SEQ ID No. 786; SEQ ID No. 787; SEQ ID No. 788; SEQ ID No. 801; SEQ ID No. 802; SEQ ID No. 812; SEQ ID No. 819; SEQ ID No. 822; SEQ ID No. 870; SEQ ID No. 897; SEQ ID No. 898; SEQ ID No. 902; SEQ ID No. 908; SEQ ID No. 916; SEQ ID No. 954; SEQ ID No. 955; SEQ ID No. 961; SEQ ID No. 983; SEQ ID No. 996; SEQ ID No. 1007; SEQ ID No. 1012; SEQ ID No. 1013; SEQ ID No. 1014; SEQ ID No. 1015; SEQ ID No. 1038; SEQ ID No. 1137 and one of their representative

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the metabolism of amino acids or polypeptides, and in that it is chosen from the polypeptides having the following sequences:

20 fragments.

- 2.5 SEQ ID No. 99; SEQ ID No. 111; SEQ ID No. 127; SEQ ID No. 134; SEQ ID No. 140; SEQ ID No. 174; SEQ ID No. 175; SEQ ID No. 176; SEQ ID No. 353; SEQ ID No. 377; SEQ ID No. 404; SEQ ID No. 523; SEQ ID No. 539; SEQ ID No. 559; SEQ ID No. 561; SEQ ID No. 586; SEQ ID No. 598; SEQ ID No. 609; SEQ ID No. 636; SEQ ID No. 687; SEQ ID No. 700; SEQ ID No. 701; SEQ ID No. 759; SEQ ID No. 790; SEQ ID No. 857; SEQ ID No. 861; SEQ ID No. 904; SEQ ID No. 936; SEQ ID N
- 30 No. 936; SEQ ID No. 952; SEQ ID No. 962; SEQ ID No. 963; SEQ ID No. 964; SEQ ID No. 965; SEQ ID No. 991; SEQ ID No. 1003; SEQ ID No. 1004; SEQ ID No. 1005; SEQ ID No. 1018; SEQ ID No. 1067; SEQ ID No. 1110; SEQ ID No. 1111; SEQ ID No. 1112; SEQ ID No. 1124; SEQ ID No. 1121; SEQ ID No. 1123; SEQ ID No. 1124; SEQ ID No. 1125 and one of their representative fragments.
- Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the metabolism of polypeptides, and in that it is chosen from the polypeptides

having the following sequences:

SEQ ID No. 4; SEQ ID No. 44; SEQ ID No. 45; SEQ ID No. 48; SEQ ID No. 54; SEQ ID No. 112; SEQ ID No. 130; SEQ ID No. 155; SEQ ID No. 163; SEQ ID No. 212; SEQ ID No. 257; SEQ ID No. 307; SEQ ID No. 343; SEQ ID No. 405; SEQ ID No. 416; SEQ ID No. 458; SEQ ID No. 540; SEQ ID No. 541; SEQ ID No. 542; SEQ ID No. 543; SEQ ID No. 544; SEQ ID No. 560; SEQ ID No. 594; SEQ ID No. 652; SEQ ID No. 699; SEQ ID No. 723; SEQ ID No. 747; SEQ ID No. 817; SEQ ID No. 827; SEQ ID No. 871; SEQ ID No. 909; SEQ ID No. 910; SEQ ID No. 911; SEQ ID No. 912; SEQ ID No. 1023; SEQ ID No. 1051; SEQ ID No. 1052; SEQ ID No. 1081 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the metabolism of fatty acids, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 76; SEQ ID No. 284; SEQ ID No. 308; SEQ ID No. 309; SEQ ID No. 310; SEQ ID No. 311; SEQ ID No. 312; SEQ ID No. 425; SEQ ID No. 433; SEQ ID No. 565; SEQ ID No. 688; SEQ ID No. 690; SEQ ID No. 691; SEQ ID No. 767; SEQ ID No. 797; SEQ ID No. 894; SEQ ID No. 895; SEQ ID No. 994; SEQ ID No. 1020; SEQ ID No. 1030; SEQ ID No. 1033; SEQ ID No. 1034; SEQ ID No. 1046; SEQ ID No. 1047; SEQ ID No. 1057 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the synthesis of the wall, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 49; SEQ ID No. 50; SEQ ID No. 177; SEQ ID No. 178; SEQ ID No. 245; SEQ ID No. 610; SEQ ID No. 972; SEQ ID No. 974; SEQ ID No. 978; SEQ ID No. 1037 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the transcription, translation and/or maturation process, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 90; SEQ ID No. 92; SEQ ID No. 131; SEQ ID No. 151; SEQ ID No. 199; SEQ ID No. 333; SEQ ID No. 334; SEQ ID No. 336; SEQ ID No. 379; SEQ ID No. 589; SEQ ID No. 590; SEQ ID No. 619; SEQ ID No. 630; SEQ ID No. 649; SEQ ID No. 739; SEQ ID No. 741; SEQ ID No. 806; SEQ ID No. 821; SEQ ID No. 843; SEQ ID No. 968; SEQ ID No. 971; SEQ ID No. 1061 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* ribosomal polypeptide or one of its representative

fragments, and in that it is chosen from the polypeptides having the following sequences: SEQ ID No. 93; SEQ ID No. 94; SEQ ID No. 95; SEQ ID No. 136; SEQ ID No. 259; SEQ ID No. 332; SEQ ID No. 348; SEQ ID No. 583; SEQ ID No. 584; SEQ ID No. 588; SEQ ID No. 591; SEQ ID No. 592; SEQ ID No. 663; SEQ ID No. 666; SEQ ID No. 667; SEQ ID No. 669; SEQ ID No. 670; SEQ ID No. 671; SEQ ID No. 672; SEQ ID No. 673; SEQ ID No. 674; SEQ ID No. 675; SEQ ID No. 676; SEQ ID No. 676; SEQ ID No. 677; SEQ ID No. 678; SEQ ID No. 679; SEQ ID No. 680; SEQ ID No. 681; SEQ ID No. 683; SEQ ID No. 684; SEQ ID No. 738; SEQ ID No. 781; SEQ ID No. 1008; SEQ ID No. 1024; SEQ ID No. 1025; SEQ ID No. 1066 and one of their representative fragments.

Preferably, the invention also relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* transport polypeptide or one of its representative fragments, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 40; SEQ ID No. 41; SEQ ID No. 52; SEQ ID No. 105; SEQ ID No. 106; SEQ ID No. 107; SEQ ID No. 109; SEQ ID No. 133; SEQ ID No. 210; SEQ ID No. 211; SEQ ID No. 214; SEQ ID No. 215; SEQ ID No. 216; SEQ ID No. 217; SEQ ID No. 218; SEQ ID No. 219; SEQ ID No. 220; SEQ ID No. 223; SEQ ID No. 242; SEQ ID No. 260; SEQ ID No. 293; SEQ ID No. 299; SEQ ID No. 366; SEQ ID No. 369; SEQ ID No. 575; SEQ ID No. 602; SEQ ID No. 638; SEQ ID No. 639; SEQ ID No. 640; SEQ ID No. 643; SEQ ID No. 653; SEQ ID No. 702; SEQ ID No. 703; SEQ ID No. 724; SEQ ID No. 732; SEQ ID No. 855; SEQ ID No. 856; SEQ ID No. 901; SEQ ID No. 906; SEQ ID No. 933; SEQ ID No. 942; SEQ ID No. 1043; SEQ ID No. 1086; SEQ ID No. 1105 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the virulence process, and in that it is chosen from the polypeptides having the following sequences:

25 SEQ ID No. 546; SEQ ID No. 550; SEQ ID No. 778; SEQ ID No. 779; SEQ ID No. 886 and one of their representative fragments.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a *Chlamydia pneumoniae* polypeptide or one of its representative fragments which is involved in the secretory system and/or which is secreted, and in that it is chosen from the polypeptides having the following sequences:

SEQ ID No. 751; SEQ ID No. 874; SEQ ID No. 875; SEQ ID No. 876; SEQ ID No. 883; SEQ ID No. 884; SEQ ID No. 885 and one of their representative fragments.

The secreted polypeptides, including the Type III and other, non-Type III secreted polypeptides, of the present invention, as well as the corresponding nucleotide sequences, may be detected by techniques known to persons skilled in the art, such as for example the techniques using cloning combined with vectors allowing the expression of the said polypeptides fused to export markers such as the *luc* gene for luciferase or the *PhoA* gene for alkaline phosphatase.

Preferably, the invention relates to a polypeptide according to the invention, characterized in that it is a polypeptide specific to *Chlamydia pneumoniae* or one of its representative fragments(with a Blast E value of >10⁻⁵), and in that it is chosen from the polypeptides having the following sequences:

5 SEQ ID No. 7; SEQ ID No. 8; SEQ ID No. 17; SEQ ID No. 18; SEQ ID No. 19; SEQ ID No. 20; SEQ ID No. 22; SEQ ID No. 23; SEQ ID No. 24; SEQ ID No. 51; SEQ ID No. 60; SEQ ID No. 63; SEQ ID No. 65; SEQ ID No. 66; SEQ ID No. 67; SEQ ID No. 83; SEQ ID No. 84; SEQ ID No. 86; SEQ ID No. 87; SEQ ID No. 125; SEQ ID No. 143; SEQ ID No. 144; SEQ ID No. 179; SEQ ID No. 182; SEQ ID No. 184; SEQ ID No. 185; SEQ ID No. 187; SEQ ID No. 221; 10 SEQ ID No. 252; SEQ ID No. 254;; SEQ ID No. 278; SEQ ID No. 279; SEQ ID No. 387; SEQ ID No. 388; SEQ ID No. 397; SEQ ID No. 1048; SEQ ID No. 1049; SEQ ID No. 1050; SEQ ID No. 1128; SEQ ID No. 1130; SEQ ID No. 1131 and one of their representative fragments.

In general, in the present invention, the functional group to which a polypeptide of the invention belongs, as well as its corresponding nucleotide sequence, may be determined either by comparative analogy with sequences already known, or by the use of standard techniques of biochemistry, of cytology combined with the techniques of genetic engineering such as immunoaffinity, localization by immunolabelling, differential extraction, measurement of enzymatic activity, study of the activity inducing or repressing expression or the study of expression in *E. coli*.

It is clearly understood, on the one hand, that, in the present invention, the nucleotide sequences (ORF) and the amino acid sequences (SEQ ID No. 2 to SEQ ID No. 1291 and SEQ ID No. 6844 to SEQ ID No. 6848) which are listed by functional group, are not exhaustive within the group considered. Moreover, it is also clearly understood that, in the present invention, a nucleotide sequence (ORF) or an amino acid sequence mentioned within a given functional group may also be part of another group taking into account, for example, the interrelationship between the groups listed.

25 Accordingly, and as an example of this interrelationship, an exported and/or secreted polypeptide as well as its coding nucleotide sequence may also be involved in the *Chlamydia pneumoniae* virulence process by modifying the defense mechanism of the infected host cell, or a transmembrane polypeptide or its coding nucleotide sequence is also part of the polypeptides or coding nucleotide sequences of the cellular envelope.

The subject of the present invention is also the nucleotide and/or polypeptide sequences according to the invention, characterized in that the said sequences are recorded on a medium, called recording medium, whose type and nature facilitate the reading, the analysis and the exploitation of the said sequences. These media may of course also contain other information extracted from the present invention, such as in particular the analogies with already known sequences, such as those mentioned in Table 1 of the present description, and/or may contain, in addition, information relating to the nucleotide and/or polypeptide sequences of other microorganisms so as to facilitate the comparative analysis and the exploitation of the results obtained.

Among these recording media, computer-readable media, such as magnetic, optical, electrical and hybrid media such as, for example, floppy disks, CD-ROMs or recording cassettes, are preferred in particular.

The invention also relates to nucleotide sequences which can be used as primer or probe,

5 characterized in that the said sequences are chosen from the nucleotide sequences according to the invention.

The invention relates, in addition, to the use of a nucleotide sequence according to the invention, as primer or probe, for the detection and/or amplification of nucleic acid sequences.

The nucleotide sequences according to the invention may thus be used to amplify nucleotide sequences, in particular by the PCR technique (polymerase chain reaction) (Erlich, 1989; Innis et al., 1990; Rolfs et al., 1991, and White et al., 1997).

These oligodeoxyribonucleotide or oligoribonucleotide primers correspond to representative nucleotide fragments, and are advantageously at least 8 nucleotides, preferably at least 12 nucleotides, 15 nucleotides and still more preferably at least 20 nucleotides long.

Other techniques for amplifying the target nucleic acid may be advantageously used as alternatives to PCR.

The nucleotide sequences of the invention, in particular the primers according to the invention, may also be used in other methods for amplifying a target nucleic acid, such as:

- the TAS (Transcription-based Amplification System) technique described by Kwoh et al. in 1989;
- 20 the 3SR (Self-Sustained Sequence Replication) technique described by Guatelli et al. in 1990;
 - the NASBA (Nucleic Acid Sequence Based Amplification) technique described by Kievitis et al. in 1991;
 - the SDA (Strand Displacement Amplification) technique (Walker et al., 1992);
 - the TMA (Transcription Mediated Amplification) technique.
- The polynucleotides of the invention may also be used in techniques for amplifying or for modifying the nucleic acid serving as probe, such as:
 - the LCR (Ligase Chain Reaction) technique described by Landegren et al. in 1988 and perfected by Barany et al. in 1991, which uses a thermostable ligase;
 - the RCR (Repair Chain Reaction) technique described by Segev in 1992;
- 30 the CPR (Cycling Probe Reaction) technique described by Duck et al. in 1990;
 - the Q-beta-replicase amplification technique described by Miele et al. in 1983 and perfected in particular by Chu et al. in 1986, Lizardi et al. in 1988, and then by Burg et al. as well as by Stone et al. in 1996.

The invention also relates to the nucleotide sequences of fragments which can be
35 obtained by amplification with the aid of at least one primer according to the invention. The present
invention encompasses both hybridization probes and primers. In general, the complementary probes
should be of a length sufficient to form a stable hybrid complex with the target sequences. Primers,

while complementary to the target sequences need not form stable hybridization complexes with the target sequences alone. Rather, primers form stable complexes with the target sequences in the presence of polymerase to permit extension of the primer.

In the case where the target polynucleotide to be detected is possibly an RNA, for example an mRNA, it will be possible to use, prior to the use of an amplification reaction with the aid of at least one primer according to the invention or to the use of a method of detection with the aid of at least one probe of the invention, a reverse transcriptase-type enzyme so as to obtain a cDNA from the RNA contained in the biological sample. The cDNA obtained will then serve as target for the primer(s) or the probe(s) used in the amplification or detection method according to the invention.

The detection probe will be chosen so that it hybridizes with the target sequence or the amplicon generated from the target sequence. Such a detection probe will advantageously have as sequence a sequence of at least 12 nucleotides, in particular of at least 20 nucleotides, and preferably at least 100 nucleotides.

The invention also comprises the nucleotide sequences which can be used as probe or primer according to the invention, characterized in that they are labelled with a radioactive compound or with a nonradioactive compound.

The nonlabelled nucleotide sequences may be used directly as probes or primers; however, the sequences are generally labelled with a radioactive element (³²P, ³⁵S, ³H, ¹²⁵I) or with a nonradioactive molecule (biotin, acetylaminofluorene, digoxigenin, 5-bromo-deoxyuridine, fluorescein) so as to obtain probes which can be used in numerous applications.

Examples of nonradioactive labelling of nucleotide sequences are described, for example, in French patent No. 78,10975 or by Urdea et al. or by Sanchez-Pescador et al. in 1988.

In the latter case, one of the labelling methods described in patents FR-2 422 956 and FR-2 518 755 may also be used.

The invention also relates to the nucleotide sequences of fragments which can be obtained by hybridization with the aid of at least one probe according to the invention.

The hybridization technique may be performed in various ways (Matthews et al., 1988). The most common method consists in immobilizing the nucleic acid extracted from Chlamydia pneumoniae cells on a support (such as nitrocellulose, nylon, polystyrene) and in incubating, under well-defined conditions, the target nucleic acid immobilized with the probe. After hybridization, the excess probe is removed and the hybrid molecules formed are detected by the appropriate method (measurement of the radioactivity, of the fluorescence or of the enzymatic activity linked to the probe).

The invention also comprises the nucleotide sequences according to the invention, 35 characterized in that they are covalently or noncovalently immobilized on a support.

According to another advantageous embodiment of the nucleic sequences according to the invention, the latter may be used immobilized on a support and may thus serve to capture, through

specific hybridization, the target nucleic acid obtained from the biological sample to be tested. If necessary, the solid support is separated from the sample and the hybridization complex formed between the so-called capture probe and the target nucleic acid is then detected by means of a second probe, called detection probe, labelled with an easily detectable element.

The nucleotide sequences according to the invention may also be used in new analytical systems, DNA chips, which allow sequencing, the study of mutations and of the expression of genes, and which are currently of interest given their very small size and their high capacity in terms of number of analyses.

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The principle of the operation of these chips is based on molecular probes, most often oligonucleotides, which are attached onto a miniaturized surface, generally of the order of a few square centimetres. During an analysis, a sample containing fragments of a target nucleic acid to be analysed, for example DNA or RNA labelled, for example, after amplification, is deposited onto the DNA chip in which the support has been coated beforehand with probes. Bringing the labelled target sequences into contact with the probes leads to the formation, through hybridization, of a duplex according to the rule of pairing defined by J.D. Watson and F. Crick. After a washing step, analysis of the surface of the chip allows the effective hybridizations to be located by means of the signals emitted by the labels tagging the target. A hybridization fingerprint results from this analysis which, by appropriate computer processing, will make it possible to determine information such as the presence of specific fragments in the sample, the determination of sequences and the presence of mutations.

The chip consists of a multitude of molecular probes, precisely organized or arrayed on a solid support whose surface is miniaturized. It is at the centre of a system where other elements (imaging system, microcomputer) allow the acquisition and interpretation of a hybridization fingerprint.

The hybridization supports are provided in the form of flat or porous surfaces (pierced with wells) composed of various materials. The choice of a support is determined by its physicochemical properties, or more precisely, by the relationship between the latter and the conditions under which the support will be placed during the synthesis or the attachment of the probes or during the use of the chip. It is therefore necessary, before considering the use of a particular support (R.S. Matson et al., 1994), to consider characteristics such as its stability to pH, its physical strength, its reactivity and its chemical stability as well as its capacity to nonspecifically bind nucleic acids. Materials such as glass, silicon and polymers are commonly used. Their surface is, in a first step, called "functionalization", made reactive towards the groups which it is desired to attach thereon. After the functionalization, so-called spacer molecules are grafted onto the activated surface. Used as intermediates between the surface and the probe, these molecules of variable size render unimportant the surface properties of the supports, which often prove to be problematic for the synthesis or the attachment of the probes and for the hybridization.

⁻ Among the hybridization supports, there may be mentioned glass which is used, for

example, in the method of in situ synthesis of oligonucleotides by photochemical addressing developed by the company Affymetrix (E.L. Sheldon, 1993), the glass surface being activated by silane. Genosensor Consortium (P. Mérel, 1994) also uses glass slides carrying wells 3 mm apart, this support being activated with epoxysilane.

Polymers or silicon may also be mentioned among these hybridization supports. For example, the Andrein Mirzabekov team has developed a chip consisting of polyacrylamide squares polymerized on a silanized glass surface (G. Yershov et al., 1996). Several teams use silicon, in particular the IFOS laboratory of Ecole Centrale of Lyon which uses a silicon semiconductor substrate which is p-doped by introducing it into its crystalline structure atoms whose valency is different from 10 that of silicon. Various types of metals, in particular gold and platinum, may also be used as support (Genosensor Consortium (K. Beattie et al., 1993)).

The probes according to the invention may be synthesized directly in situ on the supports of the DNA chips. This in situ synthesis may be carried out by photochemical addressing (developed by the company Affymax (Amsterdam, Holland) and exploited industrially by its subsidiary 15 Affymetrix (United States)) or based on the VLSIPS (very large scale immobilized polymer synthesis) technology (S.P.A. Fodor et al., 1991) which is based on a method of photochemically directed combinatory synthesis and the principle of which combines solid-phase chemistry, the use of photolabile protecting groups and photolithography.

The probes according to the invention may be attached to the DNA chips in various ways 20 such as electrochemical addressing, automated addressing or the use of probe printers (T. Livache et al., 1994; G. Yershov et al., 1996; J. Derisi et al., 1996, and S. Borman, 1996).

The revealing of the hybridization between the probes of the invention, deposited or synthesized in situ on the supports of the DNA chips, and the sample to be analysed, may be determined, for example, by measurement of fluorescent signals, by radioactive counting or by 25 electronic detection.

The use of fluorescent molecules such as fluorescein constitutes the most common method of labelling the samples. It allows direct or indirect revealing of the hybridization and allows the use of various fluorochromes.

Affymetrix currently provides an apparatus or a scanner designed to read its Gene ChipTM chips. It makes it possible to detect the hybridizations by scanning the surface of the chip in confocal microscopy (R.J. Lipshutz et al., 1995). Other methods of detecting fluorescent signals have been tested: coupling of an epifluorescence microscope and a CCD camera (G. Yershov et al., 1996), the use of an optical fibre collecting system (E.L. Sheldon, 1993). A conventional method consists in carrying out an end labelling, with phosphorus 32, of the target sequences, by means of an appropriate apparatus, the Phosphorimager (marketed by Molecular Dynamics). The electronic detection is based on the principle that the hybridization of two nucleic acid molecules is accompanied by physical phenomena which can be quantified under certain conditions (system developed by Ecole Centrale of

Lyon and called GEN-FET (GEN field effect transistor)). Genosensor Consortium and the company Beckman Instruments who are developing an electronic chip or Permittivity Chips™ may also be mentioned (K. Beattie et al., 1993).

The nucleotide sequences according to the invention may thus be used in DNA chips to carry out the analysis of mutations. This analysis is based on the production of chips capable of analysing each base of a nucleotide sequence according to the invention.

The nucleotide sequences according to the invention may also be used in DNA chips to carry out the analysis of the expression of the *Chlamydia pneumoniae* genes. This analysis of the expression of *Chlamydia pneumoniae* genes is based on the use of chips where probes of the invention, chosen for their specificity to characterize a given gene, are present (D.J. Lockhart et al., 1996; D.D. Shoemaker et al., 1996). For the methods of analysis of gene expression using the DNA chips, reference may, for example, be made to the methods described by D.J. Lockhart et al. (1996) and Sosnowsky et al. (1997) for the synthesis of probes in situ or for the addressing and the attachment of previously synthesized probes. The target sequences to be analysed are labelled and in general fragmented into sequences of about 50 to 100 nucleotides before being hybridized onto the chip. After washing as described, for example, by D.J. Lockhart et al. (1996) and application of different electric fields (Sosnowsky et al., 1997), the labelled compounds are detected and quantified, the hybridizations being carried out at least in duplicate. Comparative analyses of the signal intensities obtained with respect to the same probe for different samples and/or for different probes with the same sample,

The nucleotide sequences according to the invention may, in addition, be used in DNA chips where other nucleotide probes specific for other microorganisms are also present, and may allow the carrying out of a serial test allowing rapid identification of the presence of a microorganism in a sample.

Accordingly, the subject of the invention is also the nucleotide sequences according to the invention, characterized in that they are immobilized on a support of a DNA chip.

The DNA chips, characterized in that they contain at least one nucleotide sequence according to the invention, immobilized on the support of the said chip, also form part of the invention.

The said chips will preferably contain several probes or nucleotide sequences of the invention of different length and/or corresponding to different genes so as to identify, with greater certainty, the specificity of the target sequences or the desired mutation in the sample to be analysed.

Accordingly, the analyses carried out by means of primers and/or probes according to the invention, immobilized on supports such as DNA chips, will make it possible, for example, to identify, in samples, mutations linked to variations such as intraspecies variations. These variations may be correlated or associated with pathologies specific to the variant identified and will make it possible to select the appropriate treatment.

The invention thus comprises a DNA chip according to the invention, characterized in that it contains, in addition, at least one nucleotide sequence of a microorganism different from *Chlamydia pneumoniae*, immobilized on the support of the said chip; preferably, the different microorganism will be chosen from an associated microorganism, a bacterium of the *Chlamydia* family, and a variant of the species *Chlamydia pneumoniae*.

Another subject of the present invention is a vector for the cloning and/or the expression of a sequence, characterized in that it contains a nucleotide sequence according to the invention. Among the said vectors according to the invention, the vectors containing a nucleotide sequence encoding a polypeptide of the cellular, preferably outer, envelope of Chlamydia pneumoniae or one of 10 its representative fragments, are preferred. In a specific embodiment, the vectors contain a nucleotide sequence encoding a Chlamydia pneumoniae secreted polypeptide or one of its representative fragments or encoding a transport polypeptide, a surface exposed polypeptide, a lipoprotein or one of its representative fragments, a polypeptide involved in lipopolysaccharide (LPS) biosynthesis, a Type III and non-Type III secreted polypeptide, a polypeptide containing RGD attachment sites, a cell wall 15 anchored surface polypeptide, a polypeptide not found in Chlamydia trachomatis, a ribosomal polypeptide or a polypeptide involved in secretion, transcription, translation, maturation of proteins, a polypeptide involved in the synthesis of the wall, a polypeptide involved in the virulence, a polypeptide involved in the intermediate metabolism, in particular in the metabolism of sugars and/or of cofactors, a polypeptide involved in the metabolism of nucleotides, of amino acids, of nucleic acids 20 or of fatty acids of Chlamydia pneumoniae or one of their representative fragments, or a polypeptide specific to Chlamydia pneumoniae.

According to the invention, the vectors comprise the elements necessary to allow the expression and/or the secretion of the said nucleotide sequences in a given host cell, and form part of the invention. The vector should, in this case, comprise a promoter, signals for initiation and for termination of translation, as well as appropriate regions for regulation of transcription. It should be capable of being stably maintained in the host cell and may optionally possess particular signals specifying the secretion of the translated protein. These different elements are chosen according to the host cell used. To this effect, the nucleotide sequences according to the invention may be inserted into autonomously-replicating vectors within the chosen host, or integrative vectors in the chosen host.

Any of the standard methods known to those skilled in the art for the insertion of DNA fragments into a vector may be used to construct expression vectors containing a chimeric gene consisting of appropriate transcriptional/translational control signals and the protein coding sequences. These methods may include *in vitro* recombinant DNA and synthetic techniques and *in vivo* recombinants (genetic recombination).

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Expression of a polypeptide, peptide or derivative, or analogs thereof encoded by a polynucleotide sequence in SEQ ID No. 1 or ORFs contained within SEQ ID No. 1 may be regulated by a second nucleic acid sequence so that the protein or peptide is expressed in a host transformed

with the recombinant DNA molecule. For example, expression of a protein or peptide may be controlled by any promoter/enhancer element known in the art. Promoters which may be used to control expression include, but are not limited to, the CMV promoter, the SV40 early promoter region (Bernoist and Chambon, 1981, Nature 290:304-310), the promoter contained in the 3' long terminal repeat of Rous sarcoma virus (Yamamoto, et al., 1980, Cell 22:787-797), the herpes thymidine kinase promoter (Wagner et al., 1981, Proc. Natl. Acad. Sci. U.S.A. 78:1441-1445), the regulatory sequences of the metallothionein gene (Brinster et al., 1982, Nature 296:39-42); prokaryotic expression vectors such as the 3-lactamase promoter (Villa-Kamaroff, et al., 1978, Proc. Natl. Acad. Sci. U.S.A. 75:3727-3731), or the tac promoter (DeBoer, et al., 1983, Proc. Natl. Acad. Sci. U.S.A. 80:21-25); see 10 also "Useful proteins from recombinant bacteria" in Scientific American, 1980, 242:74-94; plant expression vectors comprising the nopaline synthetase promoter region (Herrera-Estrella et al., 1983, Nature 303:209-213) or the cauliflower mosaic virus 35S RNA promoter (Gardner, et al., 1981, Nucl. Acids Res. 9:2871), and the promoter of the photosynthetic enzyme ribulose biphosphate carboxylase (Herrera-Estrella et al., 1984, Nature 310:115-120); promoter elements from yeast or other fungi such 15 as the Gal 4 promoter, the ADC (alcohol dehydrogenase) promoter, PGK (phosphoglycerol kinase) promoter, alkaline phosphatase promoter, and the following animal transcriptional control regions, which exhibit tissue specificity and have been utilized in transgenic animals: elastase I gene control region which is active in pancreatic acinar cells (Swift et al., 1984, Cell 38:639-646; Ornitz et al., 1986, Cold Spring Harbor Symp. Quant. Biol. <u>50</u>:399-409; MacDonald, 1987, Hepatology <u>7</u>:425-515); 20 insulin gene control region which is active in pancreatic beta cells (Hanahan, 1985, Nature 315:115-122), immunoglobulin gene control region which is active in lymphoid cells (Grosschedl et al., 1984, Cell 38:647-658; Adames et al., 1985, Nature 318:533-538; Alexander et al., 1987, Mol. Cell. Biol. 7:1436-1444), mouse mammary tumor virus control region which is active in testicular, breast, lymphoid and mast cells (Leder et al., 1986, Cell 45:485-495), albumin gene control region which is 25 active in liver (Pinkert et al., 1987, Genes and Devel. 1:268-276), alpha-fetoprotein gene control region which is active in liver (Krumlauf et al., 1985, Mol. Cell. Biol. 5:1639-1648; Hammer et al., 1987, Science 235:53-58; alpha 1-antitrypsin gene control region which is active in the liver (Kelsey et al., 1987, Genes and Devel. 1:161-171), beta-globin gene control region which is active in myeloid cells (Mogram et al., 1985, Nature 315:338-340; Kollias et al., 1986, Cell 46:89-94; myelin basic protein gene control region which is active in oligodendrocyte cells in the brain (Readhead et al., 1987, Cell 48:703-712); myosin light chain-2 gene control region which is active in skeletal muscle (Sani, 1985, Nature 314:283-286), and gonadotropic releasing hormone gene control region which is active in the hypothalamus (Mason et al., 1986, Science 234:1372-1378).

The vectors according to the invention are, for example, vectors of plasmid or viral origin. In a specific embodiment, a vector is used that comprises a promoter operably linked to a protein or peptide-encoding a nucleic acid sequence in SEQ ID No. 1, or ORFs contained within SEQ ID No. 1, one or more origins of replication, and, optionally, one or more selectable markers (e.g., an

antibiotic resistance gene). Expression vectors comprise regulatory sequences that control gene expression, including gene expression in a desired host cell. Preferred vectors for the expression of the polypeptides of the invention include the pET-type plasmid vectors (Promega) or pBAD plasmid vectors (Invitrogen). Furthermore, the vectors according to the invention are useful for transforming host cells so as to clone or express the nucleotide sequences of the invention.

Expression can also be achieved using targeted homologous recombination to activate Chlamydia pneumoniae genes present in the cloned genomic DNA. A heterologous regulatory element may be inserted into a stable cell line or cloned microorganism, such that it is operatively linked with an endogenous Chlamydia pneumoniae gene present in the cloned genome, using techniques, such as targeted homologous recombination, which are well known to those of skill in the art (See, e.g., Chappel, U.S. Patent No. 4,215,051 and Skoultchi, WO 91/06667 each of which is incorporated herein in its entirety).

Expression vector/host cell systems containing inserts of polynucleotide sequences in SEQ ID No. 1 or ORFs within SEQ ID No. 1, which encode polypeptides, peptides or derivatives, or 15 analogs thereof, can be identified by three general approaches: (a) nucleic acid hybridization, (b) presence or absence of "marker" gene functions, and (c) expression of inserted sequences. In the first approach, the presence of a polynucleotide sequence inserted in an expression vector can be detected by nucleic acid hybridization using probes comprising sequences that are homologous to an inserted polynucleotide sequence. In the second approach, the recombinant vector/host system can be 20 identified and selected based upon the presence or absence of certain "marker" gene functions (e.g., thymidine kinase activity, resistance to antibiotics, transformation phenotype, occlusion body formation in baculovirus, etc.) caused by the insertion of a polynucleotide sequence in the vector. For example, if the polynucleotide sequence in SEQ ID No. 1 or ORFs within SEQ ID No. 1 is inserted within the marker gene sequence of the vector, recombinants containing the insert can be identified by 25 the absence of the marker gene function. In the third approach, recombinant expression vectors can be identified by assaying the product of the polynucleotide sequence expressed by the recombinant. Such assays can be based, for example, on the physical or functional properties of the expressed polypeptide in in vitro assay systems, e.g., binding with antibody, promotion of cell proliferation.

Once a particular recombinant DNA molecule is identified and isolated, several methods 30 known in the art may be used to propagate it. The clones identified may be introduced into an appropriate host cell by standard methods, such as for example lipofection, electroporation, and heat shock. Once a suitable host system and growth conditions are established, recombinant expression vectors can be propagated and prepared in quantity.

The invention also encompasses the host cells transformed by a vector according to the invention. These cells may be obtained by introducing into host cells a nucleotide sequence inserted into a vector as defined above, and then culturing the said cells under conditions allowing the replication and/or the expression of the transfected nucleotide sequence.

The host cell may be chosen from eukaryotic or prokaryotic systems, such as for example bacterial cells (Olins and Lee, 1993), but also yeast cells (Buckholz, 1993), as well as animal cells, in particular cultures of mammalian cells (Edwards and Aruffo, 1993), and in particular Chinese hamster ovary (CHO) cells, but also insect cells in which methods using baculoviruses for example may be used (Luckow, 1993).

Furthermore, a host cell strain may be chosen which modulates the expression of the inserted sequences, or modifies and processes the gene product in the specific fashion desired. Expression from certain promoters can be elevated in the presence of certain inducers; thus, expression of the genetically engineered polypeptide may be controlled. Furthermore, different host 10 cells have characteristic and specific mechanisms for the translational and post-translational processing and modification (e.g., glycosylation, phosphorylation) of proteins. Appropriate cell lines or host systems can be chosen to ensure the desired modification and processing of the foreign protein expressed. For example, expression in a bacterial system can be used to produce an unglycosylated core protein product. Expression in yeast will produce a glycosylated product. Expression in mammalian cells can be used to ensure "native" glycosylation of a heterologous protein. Furthermore, different vector/host expression systems may effect processing reactions to different extents.

A preferred host cell for the expression of the proteins of the invention consists of prokaryotic cells, such as Gram' bacteria. A further preferred host cell according to the invention is a bacterium belonging to the Chlamydia family, more preferably belonging to the species Chlamydia 20 pneumoniae or chosen from a microorganism associated with the species Chlamydia pneumoniae.

In other specific embodiments, the polypeptides, peptides or derivatives, or analogs thereof may be expressed as a fusion, or chimeric protein product (comprising the protein, fragment, analog, or derivative joined via a peptide bond to a heterologous protein sequence (of a different protein)). Such a chimeric product can be made by ligating the appropriate nucleic acid sequences 25 encoding the desired amino acid sequences to each other by methods known in the art, in the proper coding frame, and expressing the chimeric product by methods commonly known in the art. Alternatively, such a chimeric product may be made by protein synthetic techniques, e.g., by use of a peptide synthesizer.

Genomic sequences can be cloned and expressed as translational gene products (i.e., peptides, polypeptides, and proteins) or transcriptional gene products (i.e., antisense and ribozymes).

The invention further relates to the intracellular production of an antisense nucleic acid sequence of SEQ ID No. 1 by transcription from an exogenous sequence. For example, a vector can be introduced in vivo such that it is taken up by a cell, within which cell the vector or a portion thereof is transcribed, producing an antisense nucleic acid (RNA) of the invention. Such a vector would 35 contain a sequence encoding an antisense nucleic acid. Such a vector can remain episomal or become chromosomally integrated, as long as it can be transcribed to produce the desired antisense RNA. Such vectors can be constructed by recombinant DNA technology methods standard in the art.

Vectors can be plasmid, viral, or others known in the art, used for replication and expression in mammalian cells. Expression of the sequence encoding the an antisense RNA can be by any promoter known in the art to act in mammalian, preferably human, cells. Such promoters can be inducible or constitutive. Such promoters include but are not limited to: the CMV promoter, the SV40 early promoter region (Bernoist and Chambon, 1981, Nature 290:304-310), the promoter contained in the 3N long terminal repeat of Rous sarcoma virus (Yamamoto et al., 1980, Cell 22:787-797), the herpes thymidine kinase promoter (Wagner et al., 1981, Proc. Natl. Acad. Sci. U.S.A. 78:1441-1445), the regulatory sequences of the metallothionein gene (Brinster et al., 1982, Nature 296:39-42), etc.

In a specific embodiment, the antisense oligonucleotide comprises catalytic RNA, or a ribozyme (see, e.g., PCT International Publication WO 90/11364, published October 4, 1990; Sarver et al., 1990, Science 247:1222-1225). In another embodiment, the oligonucleotide is a 2N-0-methylribonucleotide (Inoue et al., 1987, Nucl. Acids Res. 15:6131-6148), or a chimeric RNA-DNA analog (Inoue et al., 1987, FEBS Lett. 215:327-330).

In another embodiment, the antisense nucleic acids of the invention comprise a sequence complementary to at least a portion of an RNA transcript of a polynucleotide sequence in SEQ ID No.

1. However, absolute complementarity, although preferred, is not required. A sequence "complementary to at least a portion of an RNA," as referred to herein, means a sequence having sufficient complementarity to be able to hybridize with the RNA, forming a stable duplex; in the case of double-stranded antisense nucleic acid sequence, a single strand of the duplex DNA may thus be tested, or triplex formation may be assayed. The ability to hybridize will depend on both the degree of complementarity and the length of the antisense nucleic acid. Generally, the longer the hybridizing nucleic acid, the more base mismatches with an RNA transcribed from SEQ ID No. 1 may contain and still form a stable duplex (or triplex, as the case may be). One skilled in the art can ascertain a tolerable degree of mismatch by use of standard procedures to determine the melting point of the hybridized complex.

The invention also relates to the animals, except humans, comprising one of the above-described transformed cells according to the invention.

The production of transgenic animals according to the invention overexpressing one or more of the *Chlamydia pneumoniae* genes will be preferably carried out on rats, mice or rabbits according to methods well known to persons skilled in the art such as viral or nonviral transfections. The transgenic animals overexpressing one or more of the said genes may be obtained by transfection of multiple copies of the said genes under the control of a powerful promoter of a ubiquitous nature, or which is selective for one type of tissue. The transgenic animals may also be obtained by homologous recombination on embryonic stem cells, transfer of these stem cells to embryos, selection of the chimeras affected at the level of the reproductive lines, and growth of the said chimeras.

The transformed cells as well as the transgenic animals according to the invention can be used in methods of preparing the recombinant polypeptide.

It is now possible to produce recombinant polypeptides in a relatively large quantity by genetic engineering using the cells transformed with expression vectors according to the invention or using transgenic animals according to the invention.

The methods of preparing a polypeptide of the invention in recombinant form, characterized in that they use a vector and/or a cell transformed with a vector according to the invention and/or a transgenic animal comprising one of the said transformed cells according to the invention, are themselves included in the present invention.

Among the said methods of preparing a polypeptide of the invention in recombinant form, the methods of preparation using a vector, and/or a cell transformed with the said vector and/or a transgenic animal comprising one of the said transformed cells, containing a nucleotide sequence encoding a polypeptide of the cellular envelope of *Chlamydia pneumoniae* or one of its representative fragments, more preferably encoding a polypeptide of the outer cellular envelope of *Chlamydia pneumoniae* or one of its fragment, are preferred.

Among the said methods of preparing a polypeptide of the invention in recombinant form, the methods of preparation using a vector, and/or a cell transformed with the said vector and/or a transgenic animal comprising one of the said transformed cells, containing a nucleotide sequence encoding a Chlamydia pneumoniae secreted polypeptide or one of its representative fragments or encoding a transport polypeptide, a surface exposed polypeptide, a lipoprotein or one of its representative fragments, a polypeptide involved in lipopolysaccharide biosynthesis, a Type III or other secreted polypeptide, a polypeptide containing RGD attachment sites, a cell wall anchored surface polypeptide, a polypeptide not found in Chlamydia trachomatis, a ribosomal polypeptide or a polypeptide involved in secretion, transcription, translation, maturation of proteins, a polypeptide involved in the synthesis of the wall, a polypeptide involved in the virulence, a polypeptide involved in the intermediate metabolism, in particular in the metabolism of sugars and/or of cofactors, a polypeptide involved in the metabolism of nucleotides, of amino acids, of nucleic acids or of fatty acids of Chlamydia pneumoniae or one of their representative fragments, or a polypeptide specific to Chlamydia pneumoniae, are also preferred.

The recombinant polypeptides obtained as indicated above may be provided either in glycosylated or non-glycosylated form and may or may not have the natural tertiary structure.

A preferred variant consists in producing a recombinant polypeptide fused to a "carrier" protein (chimeric protein). The advantage of this system is that it allows a stabilization and a reduction in proteolysis of the recombinant product, an increase in solubility during renaturation in vitro and/or a simplification of purification when the fusion partner has affinity for a specific ligand.

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More particularly, the invention relates to a method of preparing a polypeptide of the invention comprising the following steps:

a) culture of the transformed cells under conditions allowing the expression of a recombinant polypeptide having a nucleic acid sequence according to the invention;

b) where appropriate, recovery of the said recombinant polypeptide.

When the method of preparing a polypeptide of the invention uses a transgenic animal according to the invention, the recombinant polypeptide is then extracted from the said animal.

The subject of the invention is also a polypeptide capable of being obtained by a method of the invention as described above.

The invention also comprises a method of preparing a synthetic polypeptide, characterized in that it uses an amino acid sequence of polypeptides according to the invention.

The invention also relates to a synthetic polypeptide obtained by a method according to the invention.

Polypeptides according to the invention may also be prepared by conventional techniques in the field of peptide synthesis under conditions suitable to produce the polypeptides encoded by the polynucleotide of the invention. This synthesis may be carried out in and recovered from a homogeneous solution or on a solid phase.

For example, the synthesis technique in a homogeneous solution described by 15 Houbenweyl in 1974 may be used.

This method of synthesis consists in successively condensing, in pairs, the successive amino acids in the required order, or in condensing amino acids and fragments previously formed and already containing several amino acids in the appropriate order, or alternatively several fragments thus previously prepared, it being understood that care will have been taken to protect beforehand all the reactive functional groups carried by these amino acids or fragments, with the exception of the amine functional groups of one and the carboxyl functional groups of the other or vice versa, which should normally take part in the formation of the peptide bonds, in particular after activation of the carboxyl functional group, according to methods well known in peptide synthesis.

According to another preferred technique of the invention, the one described by 25 Merrifield is used.

To manufacture a peptide chain according to the Merrifield method, a highly porous polymer resin is used, onto which the first C-terminal amino acid of the chain is attached. This amino acid is attached onto a resin via its carboxyl group and its amine functional group is protected. The amino acids which will constitute the peptide chain are thus attached, one after another, onto the amine group, each time deprotected beforehand, of the portion of the peptide chain already formed, and which is attached to the resin. When the entire peptide chain desired is formed, the protecting groups are removed from the various amino acids constituting the peptide chain and the peptide is detached from the resin with the aid of an acid.

The invention relates, in addition, to hybrid (fusion) polypeptides having at least one polypeptide or one of its representative fragments according to the invention, and a sequence of a polypeptide capable of eliciting an immune response in humans or animals.

Advantageously, the antigenic determinant is such that it is capable of eliciting a humoral

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An antigenic determinant may be identified by screening cellular response. expression libraries of the Chlamydia pneumoniae genome with antibodies contained in the serum of patients infected with a bacterium belonging to the species Chlamydia pneumoniae. An antigenic determinant may comprise a polypeptide or one of its representative fragments according to the invention, in glycosylated form, used in order to obtain immunogenic compositions capable of inducing the synthesis of antibodies directed against multiple epitopes. The said polypeptides or their glycosylated fragments also form part of the invention.

These hybrid molecules may consist, in part, of a carrier molecule for polypeptides or for their representative fragments according to the invention, combined with a portion which may be 10 immunogenic, in particular an epitope of the diphtheria toxin, the tetanus toxin, a hepatitis B virus surface antigen (patent FR 79 21811), the poliomyelitis virus VP1 antigen or any other viral or bacterial toxin or antigen.

The methods of synthesizing the hybrid molecules include the methods used in genetic engineering to construct hybrid nucleotide sequences encoding the desired polypeptide sequences. 15 Reference may be advantageously made, for example, to the technique for producing genes encoding fusion proteins described by Minton in 1984.

The said hybrid nucleotide sequences encoding a hybrid polypeptide as well as the hybrid polypeptides according to the invention, characterized in that they are recombinant polypeptides obtained by the expression of the said hybrid nucleotide sequences, also form part of the invention.

The invention also comprises the vectors characterized in that they contain one of the said hybrid nucleotide sequences. The host cells transformed by the said vectors, the transgenic animals comprising one of the said transformed cells as well as the methods of preparing recombinant polypeptides using the said vectors, the said transformed cells and/or the said transgenic animals of course also form part of the invention.

The polypeptides according to the invention, the antibodies according to the invention described below and the nucleotide sequences according to the invention may advantageously be used in in vitro and/or in vivo methods for the detection and/or the identification of bacteria belonging to the species Chlamydia pneumoniae, in a biological sample (biological tissue or fluid) which is likely to contain them. These methods, depending on the specificity of the polypeptides, of the antibodies and of the nucleotide sequences according to the invention which will be used, may in particular detect and/or identify the bacterial variants belonging to the species Chlamydia pneumoniae as well as the associated microorganisms capable of being detected by the polypeptides, the antibodies and the nucleotide sequences according to the invention which will be chosen. It may, for example, be advantageous to choose a polypeptide, an antibody or a nucleotide sequence according to the 35 invention, which is capable of detecting any bacterium of the Chlamydia family by choosing a polypeptide, an antibody and/or a nucleotide sequence according to the invention which is specific to the family or, on the contrary, it will be most particularly advantageous to target a variant of the

species Chlamydia pneumoniae, which is responsible, for example, for the induction or the worsening of pathologies specific to the targeted variant, by choosing a polypeptide, an antibody and/or a nucleotide sequence according to the invention which is specific to the said variant.

The polypeptides according to the invention may advantageously be used in a method for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism, in a biological sample (biological tissue or fluid) which is likely to contain them, characterized in that it comprises the following steps:

- a) bringing this biological sample into contact with a polypeptide or one of its representative fragments according to the invention (under conditions allowing an immunological reaction between
 the said polypeptide and the antibodies which may be present in the biological sample);
 - b) detecting the antigen-antibody complexes which may be formed.

Preferably, the biological sample consists of a fluid, for example a human or animal serum, blood or biopsies.

Any conventional procedure may be used to carry out such a detection of the antigenantibody complexes which may be formed.

By way of example, a preferred method uses immunoenzymatic procedures based on the ELISA technique, immunofluorescence procedures or radioimmunological procedures (RIA), and the like.

Accordingly, the invention also relates to the polypeptides according to the invention, 20 labelled with the aid of a suitable label such as a label of the enzymatic, fluorescent or radioactive type.

Such methods comprise, for example, the following steps:

- deposition of defined quantities of a polypeptide composition according to the invention into the wells of a microtitre plate,
- 25 introduction, into the said wells, of increasing dilutions of serum, or of a different biological sample as defined above, which has to be analysed,
 - incubation of the microplate,
- introduction, into the wells of the microtitre plate, of labelled antibodies directed against human or animal immunoglobulins, these antibodies having been labelled with the aid of an enzyme selected from those which are capable of hydrolyzing a substrate, thereby modifying the absorption of the radiation of the latter, at least at a defined wavelength, for example at 550 nm,
 - detection, by comparison with a control, of the quantity of substrate hydrolyzed.

The invention also relates to a kit or set for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism, characterized in that it comprises the following components:

a polypeptide according to the invention,

- where appropriate, the reagents for constituting the medium appropriate for the immunological or specific reaction,
- the reagents allowing the detection of the antigen-antibody complexes produced by the immunological reaction between the polypeptide(s) of the invention and the antibodies which may be present in the biological sample, it being possible for these reagents also to carry a label, or to be capable of being recognized in turn by a labelled reagent, more particularly in the case where the polypeptide according to the invention is not labelled,
- where appropriate, a reference biological sample (negative control) free of antibodies recognized by a polypeptide according to the invention,
- where appropriate, a reference biological sample (positive control) containing a predetermined quantity of antibodies recognized by a polypeptide according to the invention.

According to the invention, the polypeptides, peptides, fusion proteins or other derivatives, or analogs thereof encoded by a polynucleotide sequence in SEQ ID No. 1, may be used as an immunogen to generate antibodies which immunospecifically bind such an immunogen. Such antibodies may include, but are not limited to, polyclonal and monoclonal antibodies, humanized or chimeric antibodies, single chain antibodies, Fab fragments, F(ab')₂ fragments, fragments produced by a Fab expression library, anti-idiotypic (anti-Id) antibodies, and epitope-binding fragments of any of the above. In a specific embodiment, the antibody to a polypeptide, peptide or other derivative, or analog thereof encoded by a polynucleotide sequence in SEQ ID No. 1 is a bispecific antibody (see generally, e.g. Fanger and Drakeman, 1995, Drug News and Perspectives 8: 133-137). Such a bispecific antibody is genetically engineered to recognize both (1) an epitope and (2) one of a variety of "trigger" molecules, e.g. Fc receptors on myeloid cells, and CD3 and CD2 on T cells, that have been identified as being able to cause a cytotoxic T-cell to destroy a particular target. Such bispecific antibodies can be prepared either by chemical conjugation, hybridoma, or recombinant molecular biology techniques known to the skilled artisan.

Various procedures known in the art may be used for the production of polyclonal antibodies to a polypeptide, peptide or other derivative, or analog thereof encoded by a polynucleotide sequence in SEQ ID No. 1. For the production of antibody, various host animals can be immunized by injection with a polypeptide, or peptide or other derivative, or analog thereof, including but not limited to rabbits, mice, rats, etc. Various adjuvants, depending on the host species, may be used to increase the immunological response, including but not limited to StimulonTM QS-21 (Aquila Biopharmaceuticals, Inc., Framingham, MA), MPLTM (3-O-deacylated monophosphoryl lipid A; RIBI ImmunoChem Research, Inc., Hamilton, MT), aluminum phosphate, IL-12 (Genetics Institute, Cambridge, MA), Freund's (complete and incomplete), mineral gels such as aluminum hydroxide, surface active substances such as lysolecithin, pluronic polyols, polyanions, peptides, oil emulsions, keyhole limpet hemocyanins, dinitrophenol, BCG (bacille Calmette-Guerin), and corynebacterium parvum.—Alternatively, polyclonal antibodies may be prepared by purifying, on an affinity column

onto which a polypeptide according to the invention has been previously attached, the antibodies contained in the serum of patients infected with a bacterium belonging to the species Chlamydia pneumoniae.

For preparation of monoclonal antibodies directed toward a polypeptide, peptide or other derivative, or analog, any technique which provides for the production of antibody molecules by continuous cell lines in culture may be used. For example, the hybridoma technique originally developed by Kohler and Milstein (1975, Nature 256:495-497), as well as the trioma technique, the human B-cell hybridoma technique (Kozbor et al., 1983, Immunology Today 4:72), and the EBVhybridoma technique to produce human monoclonal antibodies (Cole et al., 1985, in Monoclonal 10 Antibodies and Cancer Therapy, Alan R. Liss, Inc., pp. 77-96). In an additional embodiment of the invention, monoclonal antibodies can be produced in germ-free animals utilizing technology described in PCT/US90/02545. In another embodiment of the invention, transgenic non-human animals can be used for the production of human antibodies utilizing technology described in WO 98/24893 and WO 96/33735. According to the invention, human antibodies may be used and can be obtained by using 15 human hybridomas (Cote et al., 1983, Proc. Natl. Acad. Sci. U.S.A. 80:2026-2030) or by transforming human B cells with EBV virus in vitro (Cole et al., 1985, in Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, pp. 77-96). In fact, according to the invention, techniques developed for the production of "chimeric antibodies" (Morrison et al., 1984, PROC. NATL. ACAD. SCI. U.S.A. 81:6851-6855; Neuberger et al., 1984, Nature 312:604-608; Takeda et al., 1985, Nature 314:452-454) 20 by splicing the genes from a mouse antibody molecule specific for a polypeptide, peptide or other derivative, or analog together with genes from a human antibody molecule of appropriate biological activity can be used; such antibodies are within the scope of this invention.

According to the invention, techniques described for the production of single chain antibodies (U.S. Patent 4,946,778) can be adapted to produce polypeptide or peptide-specific single chain antibodies. An additional embodiment of the invention utilizes the techniques described for the construction of Fab expression libraries (Huse et al., 1989, Science 246:1275-1281) to allow rapid and easy identification of monoclonal Fab fragments with the desired specificity for polypeptides, derivatives, or analogs.

Antibody fragments which contain the idiotype of the molecule can be generated by known techniques. For example, such fragments include but are not limited to: the F(ab')₂ fragment which can be produced by pepsin digestion of the antibody molecule; the Fab' fragments which can be generated by reducing the disulfide bridges of the F(ab')₂ fragment, the Fab fragments which can be generated by treating the antibody molecule with papain and a reducing agent, and Fv fragments.

In addition, techniques have been developed for the production of chimerized (See, e.g., Boss, M. et al., U.S. Patent No. 4,816,397; and Cabilly, S. et al., U.S. Patent No. 5,585,089 each of which is incorporated herein by reference in its entirety) humanized antibodies (See, e.g., Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) An immunoglobulin

light or heavy chain variable region consists of a "framework" region interrupted by three hypervariable regions, referred to as complementarily determining regions (CDRs). The extent of the framework region and CDRs have been precisely defined (See, "Sequences of Proteins of Immunological Interest", Kabat, E. et al., U.S. Department of Health and Human Services (1983). Briefly, humanized antibodies are antibody molecules from non-human species having one or more CDRs from the non-human species and a framework from a human immunoglobulin molecule.

The antibodies of the invention may also be labelled in the same manner as described above for the nucleic probes of the invention such as an enzymatic, fluorescent or radioactive type labelling.

- The invention relates, in addition, to a method for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism in a biological sample, characterized in that it comprises the following steps:
- a) bringing the biological sample (biological tissue or fluid) into contact with a mono- or polyclonal antibody according to the invention (under conditions allowing an immunological reaction between the said antibodies and the polypeptides of the bacterium belonging to the species Chlamydia pneumoniae or to an associated microorganism which may be present in the biological sample, that is, under conditions suitable for the formation of immune complexes);
 - b) detecting the antigen-antibody complex which may be formed.
- Also falling within the scope of the invention is a kit or set for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism, characterized in that it comprises the following components:
 - a polyclonal or monoclonal antibody according to the invention, labeled where appropriate;
 - where appropriate, a reagent for constituting the medium appropriate for carrying out the immunological reaction;
 - a reagent allowing the detection of the antigen-antibody complexes produced by the immunological reaction, it being possible for this reagent also to carry a label, or to be capable of being recognized in turn by a labelled reagent, more particularly in the case where the said monoclonal or polyclonal antibody is not labelled;
- 30 where appropriate, reagents for carrying out the lysis of the cells in the sample tested.

The principle of the DNA chip which was explained above may also be used to produce protein "chips" on which the support has been coated with a polypeptide or an antibody according to the invention, or arrays thereof, in place of the DNA. These protein "chips" make it possible, for example, to analyze the biomolecular interactions (BIA) induced by the affinity capture of target analytes onto a support coated, for example, with proteins, by surface plasma resonance (SPR). Reference may be made, for example, to the techniques for coupling proteins onto a solid support which are described in EP 524 800 or to the methods describing the use of biosensor-type protein

chips such as the BIAcore-type technique (Pharmacia) (Arlinghaus et al., 1997, Krone et al., 1997, Chatelier et al., 1995). These polypeptides or antibodies according to the invention, capable of specifically binding antibodies or polypeptides derived from the sample to be analysed, may thus be used in protein chips for the detection and/or the identification of proteins in samples. The said protein chips may in particular be used for infectious diagnosis and may preferably contain, per chip, several polypeptides and/or antibodies of the invention of different specificity, and/or polypeptides and/or antibodies capable of recognizing microorganisms different from *Chlamydia pneumoniae*.

Accordingly, the subject of the present invention is also the polypeptides and the antibodies according to the invention, characterized in that they are immobilized on a support, in particular of a protein chip.

The protein chips, characterized in that they contain at least one polypeptide or one antibody according to the invention immobilized on the support of the said chip, also form part of the invention.

The invention comprises, in addition, a protein chip according to the invention, that it contains, in addition, at least one polypeptide of a microorganism different from *Chlamydia pneumoniae* or at least one antibody directed against a compound of a microorganism different from *Chlamydia pneumoniae*, immobilized on the support of the said chip.

The invention also relates to a kit or set for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism, or for the detection and/or the identification of a microorganism characterized in that it comprises a protein chip according to the invention.

The subject of the present invention is also a method for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism in a biological sample, characterized in that it uses a nucleotide sequence according to the invention.

More particularly, the invention relates to a method for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism in a biological sample, characterized in that it comprises the following steps:

- a) where appropriate, isolation of the DNA from the biological sample to be analysed, or optionally
 30 production of a cDNA from the RNA in the biological sample;
 - b) specific amplification of the DNA of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism with the aid of at least one primer according to the invention;
 - c) detection of the amplification products.
- These may be detected, for example, by the molecular hybridization technique using a nucleic probe according to the invention. This probe will be advantageously labelled with a nonradioactive (cold probe) or radioactive element.

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For the purposes of the present invention, "DNA in the biological sample" c "DNA contained in the biological sample" will be understood to mean either the DNA present in th biological sample considered, or optionally the cDNA obtained after the action of a reverse transcriptase-type enzyme on the RNA present in the said biological sample.

Another aim of the present invention consists in a method according to the invention characterized in that it comprises the following steps: a)

- bringing a nucleotide probe according to the invention into contact with a biological sample, the DNA contained in the biological sample having, where appropriate, been previously made accessible to hybridization, under conditions allowing the hybridization of the probe to complementary base pairs of the DNA of a bacterium belonging to the species Chlamydia 10 pneumoniae or to an associated microorganism; b)
 - detecting the hybridization complex formed between the nucleotide probe and the DNA in the biological sample.

The present invention also relates to a method according to the invention, characterized in 15. that it comprises the following steps:

- bringing a nucleotide probe immobilized on a support according to the invention into contact a) with a biological sample, the DNA in the sample having, where appropriate, been previously made accessible to hybridization, under conditions allowing the hybridization of the probe to the DNA of a bacterium belonging to the species Chlamydia pneumoniae or to an associated microorganism;
- bringing the hybrid formed between the nucleotide probe immobilized on a support and the DNA b) contained in the biological sample, where appropriate after removal of the DNA in the biological sample which has not hybridized with the probe, into contact with a labelled nucleotide probe according to the invention;
- detecting the new hybrid formed in step b). 25 c)

According to an advantageous embodiment of the method for the detection and/or the identification defined above, it is characterized in that, prior to step a), the DNA in the biological sample is primer-extended and/or amplified beforehand with the aid of at least one primer according to

- 30 The invention relates, in addition, to a kit or set for the detection and/or the identification of bacteria belonging to the species Chlamydia pneumoniae or to an associated microorganism, characterized in that it comprises the following components:
 - a nucleotide probe according to the invention; a)
 - where appropriate, the reagents necessary for carrying out a hybridization reaction; b)
- where appropriate, at least one primer according to the invention as well as the reagents (e.g., 35 c). polymerase and/or deoxynucleotide triphosphates) necessary for a DNA amplification reaction.

The invention also relates to a kit or set for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism, characterized in that it comprises the following components:

- a) a nucleotide probe, called capture probe, according to the invention;
- 5 b) an oligonucleotide probe, called detection probe, according to the invention;
 - c) where appropriate, at least one primer according to the invention as well as the reagents (e.g., polymerase and/or deoxynucleotide triphosphates) necessary for a DNA amplification reaction.

The invention also relates to a kit or set for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism, characterized in that it comprises the following components:

- a) at least one primer according to the invention;
- b) where appropriate, the reagents necessary for carrying out a DNA amplification reaction;
- c) where appropriate, a component which makes it possible to check the sequence of the amplified fragment, more particularly an oligonucleotide probe according to the invention.

The invention relates, in addition, to a kit or set for the detection and/or the identification of bacteria belonging to the species *Chlamydia pneumoniae* or to an associated microorganism, or for the detection and/or the identification of a microorganism characterized in that it comprises a DNA chip according to the invention.

The invention also relates to a method or to a kit or set according to the invention for the detection and/or the identification of bacteria belonging to the species Chlamydia pneumoniae, characterized in that the said primer and/or the said probe according to the invention are chosen from the nucleotide sequences specific to the species Chlamydia pneumoniae, in that the said polypeptides according to the invention are chosen from the polypeptides specific to the species Chlamydia pneumoniae and in that the said antibodies according to the invention are chosen from the antibodies directed against the polypeptides according to the invention chosen from the polypeptides specific to the species Chlamydia pneumoniae.

Preferably, the said method or the said kit or set above according to the invention, for the detection and/or the identification of bacteria belonging to the species Chlamydia pneumoniae is characterized in that the said primer and/or the said probe or the said polypeptides are chosen from the nucleotide sequences or polypeptides according to the invention which have been identified as being specific to the species Chlamydia pneumoniae and in that the said antibodies according to the invention are chosen from the antibodies directed against the polypeptides according to the invention chosen from the polypeptides identified as being specific to the species Chlamydia pneumoniae.

The invention relates, in addition, to a method or a kit or set according to the invention for the diagnosis of predispositions to, or of a condition caused by, cardiovascular diseases, preferably linked to the presence of atheroma, which are induced or worsened by a *Chlamydia pneumoniae*

infection.

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The invention also relates to a method or a kit or set according to the invention for the diagnosis of predispositions to, or of conditions caused by, respiratory diseases induced or worsened by a Chlamydia pneumoniae infection; preferably, the said respiratory disease is asthma.

According to another aspect, the subject of the invention is the use of polypeptides according to the invention, of cells transformed with a vector according to the invention and/or of transformed animals according to the invention, for the biosynthesis or the biodegradation of organic or inorganic compounds.

As has been mentioned above, the nucleotide sequences of the invention were identified 10 by homology with sequences known to encode, for example, polypeptides or fragments of enzymatic polypeptides involved in the biosynthesis or the biodegradation of organic or inorganic molecules.

It is thus possible to use the said polypeptides of the invention in a similar manner for the biosynthesis or the biodegradation of organic or inorganic compounds of industrial or therapeutic interest (called compounds of interest).

Among these polypeptides, there may be mentioned in particular the enzymes involved in 15 metabolism, such as the proteolytic enzymes, amino transferases, glucose metabolism, or the enzymes which may be used in the biosynthesis of sugars, amino acids, fatty acids, polypeptides, nucleotides, nucleic acids or any other organic or inorganic compound or in the biodegradation of organic or inorganic compounds.

Among these polypeptides, there may be mentioned, in addition, the mutated or modified enzymes corresponding to mutated or modified polypeptides according to the invention which may also be used for the biosynthesis or the biodegradation of organic or inorganic compounds at the industrial level, such as, for example, the production of compounds of interest, the reprocessing of manufacturing residues applied to the food industries, to the papermaking industry or to the chemical and pharmaceutical industries.

The methods of biosynthesis or biodegradation of organic or inorganic compounds, characterized in that they use a polypeptide or one of its representative fragments according to the invention, transformed cells according to the invention and/or a transformed animal according to the invention, also form part of the invention.

The invention relates, in addition, to the use of a nucleotide sequence according to the invention, of a polypeptide according to the invention, of an antibody according to the invention, of a cell according to the invention, and/or of a transformed animal according to the invention, for the selection of an organic or inorganic compound capable of modulating, regulating, inducing or inhibiting the expression of genes, and/or of modifying the cellular replication of eukaryotic or 35 prokaryotic cells or capable of inducing, inhibiting or worsening the pathologies linked to an infection by Chlamydia pneumoniae or one of its associated microorganisms.

The invention also comprises screening assays that comprise methods of selecting

compounds capable of binding to a polypeptide, fusion polypeptide or one of its representative fragments according to the invention, capable of binding to a nucleotide sequence according to the invention, or capable of recognizing an antibody according to the invention, and/or capable of modulating, regulating, inducing or inhibiting the expression of genes, and/or of modifying the growth or the cellular replication of eukaryotic or prokaryotic cells, or capable of inducing, inhibiting or worsening, in an animal or human organism, the pathologies linked to an infection by *Chlamydia pneumoniae* or one of its associated microorganisms, characterized in that it comprises the following steps:

- a) bringing the said compound into contact with the said polypeptide, the said nucleotide
 sequence, with a transformed cell according to the invention and/or administering the said compound to a transformed animal according to the invention;
- b) determining the capacity of the said compound to bind with the said polypeptide or the said nucleotide sequence, or to modulate, regulate, induce or inhibit the expression of genes, or to modulate growth or cellular replication, or to induce, inhibit or worsen in the said transformed animal, the pathologies linked to an infection by *Chlamydia pneumoniae* or one of its associated microorganisms.

The transformed cells and/or animals according to the invention may advantageously serve as a model and may be used in methods for studying, identifying and/or selecting compounds capable of being responsible for pathologies induced or worsened by *Chlamydia pneumoniae*, or capable of preventing and/or of treating these pathologies such as, for example, cardiovascular or respiratory diseases. In particular, the transformed host cells, in particular bacteria of the *Chlamydia* family whose transformation with a vector according to the invention may, for example, increase or inhibit its infectivity, or modulate the pathologies usually induced or worsened by the infection, may be used to infect animals in which the onset of pathologies will be monitored. These nontransformed animals, infected for example with transformed *Chlamydia* bacteria, may serve as a study model. In the same manner, the transformed animals according to the invention may, for example, exhibit predispositions to cardiovascular and/or respiratory diseases and thus be used in methods for selecting compounds capable of preventing and/or of treating the said diseases. The said methods using the said transformed cells and/or transformed animals form part of the invention

The compounds capable of being selected may be organic compounds such as polypeptides or carbohydrates or any other organic or inorganic compounds already known, or new organic compounds produced using molecular modeling techniques and obtained by chemical or biochemical synthesis, these techniques being known to persons skilled in the art.

The said selected compounds may be used to modulate the growth and/or the cellular replication of *Chlamydia pneumoniae* or any other associated microorganism and thus to control infection by these microorganisms. The said compounds according to the invention may also be used to modulate the growth and/or the cellular replication of all eukaryotic or prokaryotic cells, in

particular tumour cells and infectious microorganisms, for which the said compounds will prove active, the methods which make it possible to determine the said modulations being well known to persons skilled in the art.

Compound capable of modulating the growth of a microorganism is understood to designate any compound which makes it possible to act, to modify, to limit and/or to reduce the development, the growth, the rate of proliferation and/or the viability of the said microorganism.

This modulation may be achieved, for example, by an agent capable of binding to a protein and thus of inhibiting or of potentiating its biological activity, or capable of binding to a membrane protein of the outer surface of a microorganism and of blocking the penetration of the said microorganism into the host cell or of promoting the action of the immune system of the infected organism directed against the said microorganism. This modulation may also be achieved by an agent capable of binding to a nucleotide sequence of a DNA or RNA of a microorganism and of blocking, for example, the expression of a polypeptide whose biological or structural activity is necessary for the growth or for the reproduction of the said microorganism.

Associated microorganism is understood to designate in the present invention any microorganism whose gene expression may be modulated, regulated, induced or inhibited, or whose growth or cellular replication may also be modulated by a compound of the invention. Associated microorganism is also understood to designate in the present invention any microorganism containing nucleotide sequences or polypeptides according to the invention. These microorganisms may, in some cases, contain polypeptides or nucleotide sequences identical or homologous to those of the invention may also be detected and/or identified by the detection and/or identification methods or kit according to the invention and may also serve as a target for the compounds of the invention.

The invention relates to the compounds capable of being selected by a method of selection according to the invention.

- The invention also relates to a pharmaceutical composition comprising a compound chosen from the following compounds:
 - a nucleotide sequence according to the invention;
 - a polypeptide according to the invention;
 - a vector according to the invention;
- 30 an antibody according to the invention; and
 - a compound capable of being selected by a method of selection according to the invention, optionally in combination with a pharmaceutically acceptable vehicle.

An effective quantity is understood to designate a sufficient quantity of the said compound or antibody, or of a polypeptide of the invention, which makes it possible to modulate the growth of *Chlamydia pneumoniae* or of an associated microorganism.

The invention also relates to a pharmaceutical composition comprising one or more polypeptides according to the invention and/or one or more fusion polypeptides according to the

invention. Such compositions further comprise a pharmaceutically acceptable carrier or vehicle. Pharmaceutical compositions include compositions that comprise a polypeptide or fusion polypeptide that immunoreacts with seropositive serum of an individual infected with Chlamydia pneumoniae. In one embodiment, a pharmaceutical composition according to the invention can be utilized for the prevention or the treatment of an infection by a bacterium belonging to the species Chlamydia pneumoniae or by an associated microorganism.

The invention relates, in addition, to an immunogenic composition or a vaccine composition, characterized in that it comprises one or more polypeptides according to the invention and/or one or more hybrid (fusion) polypeptides according to the invention. Such compositions 10 further comprise a pharmaceutically acceptable carrier or vehicle. Immunogenic compositions or fusion polypeptide include compositions that comprise a polypeptide that immunoreacts with seropositive serum of an individual infected with Chlamydia pneumoniae.

Immunogenic or vaccine compositions can also comprise DNA immunogenic or vaccine compositions comprising polynucleotide sequences of the invention operatively associated with a 15 regulatory sequence that controls gene expression. Such compositions can include compositions that direct expression of a neutralizing epitope of Chlamydia pneumoniae.

The invention also comprises the use of a transformed cell according to the invention, for the preparation of a vaccine composition.

The invention also relates to a vaccine composition, characterized in that it contains a 20 nucleotide sequence according to the invention, a vector according to the invention and/or a transformed cell according to the invention.

The invention also relates to the vaccine compositions according to the invention, for the prevention or the treatment of an infection by a bacterium belonging to the species Chlamydia pneumoniae or by an associated microorganism.

The invention also relates to the use of DNA encoding polypeptides of Chlamydia pneumoniae, in particular antigenic determinants, to be formulated as vaccine compositions. In accordance with this aspect of the invention, the DNA of interest is engineered into an expression vector under the control of regulatory elements, which will promote expression of the DNA, i.e., promoter or enhancer elements. In one preferred embodiment, the promoter element may be cell-30 specific and permit substantial transcription of the DNA only in predetermined cells. The DNA may be introduced directly into the host either as naked DNA (U.S. Patent No. 5,679,647 incorporated herein by reference in their entirety) or formulated in compositions with other agents which may facilitate uptake of the DNA including viral vectors, i.e., adenovirus vectors, or agents which facilitate immunization, such as bupivicaine and other local anesthetics (U.S. Patent 5,593,972 incorporated 35 herein by reference in their entirety), saponins (U.S. Patent 5,739,118 incorporated herein by reference in their entirety) and cationic polyamines (published international application WO 96/10038 incorporated herein by reference in their entirety).

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The DNA sequence encoding the antigenic polypeptide and regulatory element may be inserted into a stable cell line or cloned microorganism, using techniques, such as targeted homologous recombination, which are well known to those of skill in the art, and described e.g., in Chappel, U.S. Pant No. 4,215,051; Skoultchi, WO 91/06667 each of which is incorporated herein by reference in its efrety.

Succell lines and microorganisms may be formulated for vaccine purposes. In yet another embodint, the DNA sequence encoding the antigenic polypeptide and regulatory element may be deliver to a mammalian host and introduced into the host genome via homologous recombination (Chappel, U.S. Patent No. 4,215,051; Skoultchi, WO 91/06667 each of which is incorporated heby reference in its entirety.

Prolly, the immunogenic and/or vaccine compositions according to the invention intended for the invention and/or the treatment of an infection by Chlamydia pneumoniae or by an associated micanism will be chosen from the immunogenic and/or vaccine compositions comprising a potide or one of its representative fragments corresponding to a protein, or one of its representations sing nucleotide sequences will also preferably comprise nucleotide sequences encoding a pole or one of its representative fragments corresponding to a protein, or one of its representative its, of the cellular envelope of Chlamydia pneumoniae.

Arese preferred immunogenic and/or vaccine compositions, the most preferred are
those comprist preptide or one of its representative fragments, or a nucleotide sequence or one
of its representative sequences are chosen from the nucleotide or amino acid
sequences identifies functional group and listed above.

immunogenicions according to the invention may be selected by techniques known to persons skillet, such as for example on the capacity of the said polypeptides to stimulate T cells, which rexample, in their proliferation or the secretion of interleukins, and which leads to the producbodies directed against the said polypeptides.

which a weight dose of the vaccine composition comparable to the dose used in humans is d, the antibody reaction is tested by collecting serum followed by a study of the formation ex between the antibodies present in the serum and the antigen of the vaccine composition the customary techniques.

to the invention, the said vaccine compositions will be preferably in combination maceutically acceptable vehicle and, where appropriate, with one or more appropriate iuvants.

diseases: ave microorganisms (M. bovis - BCG for tuberculosis), inactivated microorganisms virus), acellular extracts (Bordetella pertussis for whooping cough),

recombinant proteins (hepatitis B virus surface antigen), polysaccharides (pneumococci). Experiments are underway on vaccines prepared from synthetic peptides or from genetically modified microorganisms expressing heterologous antigens. Even more recently, recombinant plasmid DNAs carrying genes encoding protective antigens were proposed as an alternative vaccine strategy. This type of vaccination is carried out with a particular plasmid derived from an *E. coli* plasmid which does not replicate *in vivo* and which encodes only the vaccinal protein. Animals were immunized by simply injecting the naked plasmid DNA into the muscle. This technique leads to the expression of the vaccine protein *in situ* and to a cell-type (CTL) and a humoral type (antibody) immune response. This double induction of the immune response is one of the main advantages of the technique of vaccination with naked DNA.

The vaccine compositions of the present invention can be evaluated in *in vitro* and *in vivo* animal models prior to host, <u>e.g.</u>, human, administration. For example, *in vitro* neutralization assays such as those described by Peterson et al. (1988) can be utilized. The assay described by Peterson et al. (1988) is suitable for testing vaccine compositions directed toward either *Chlamydia pneumoniae* or *Chlamydia trachomatis*.

Briefly, hyper-immune antisera is diluted in PBS containing 5% guinea pig serum, as a complement source. Chlamydiae (10⁴ IFU; infectious units) are added to the antisera dilutions. The antigen-antibody mixtures are incubated at 37EC for 45 minutes and inoculated into duplicate confluent Hep-2 or HeLa cell monolayers contained in glass vials (e.g., 15 by 45 mm), which have been washed twice with PBS prior to inoculation. The monolayer cells are infected by centrifugation at 1000X g for 1 hour followed by stationary incubation at 37E for 1 hour. Infected monolayers are incubated for 48 or 72 hours, fixed and stained with a Chlamydiae specific antibody, such as anti-MOMP for C.trachomatis, etc. IFUs are counted in ten fields at a magnification of 200X. Neutralization titer is assigned based on the dilution that gives 50% inhibition as compared to control monolayers/IFU.

The efficacy of vaccine compositions can be determined *in vivo* by challenging animal models of *Chlamydia pneumoniae* infection, e.g., mice or rabbits, with the vaccine-compositions. For example, *in vivo* vaccine composition challenge studies can be performed in the murine model of *Chlamydia pneumonia* infection described by Moazed et al. (1997). Briefly, male homozygous apoE deficient and/or C57 BL/6J mice are immunized with vaccine compositions. Post-vaccination, the mice are mildly sedated by subcutaneous injection of a mixture of ketamine and xylazine, and inoculated intranasally with a total volume of 0.03-0.05 ml of organisms suspended in SPG medium or with SPG alone. The inoculations of *Chlamydia pneumoniae* are approximately 3x10⁷ IFU/mouse. The mice are inoculated with *Chlamydia pneumoniae* at 8, 10, and 12 weeks of age. Tissues are then collected from the lung, spleen, heart, etc. at 1-20 weeks after the first inoculation. The presence of organisms is scored using PCR, histology and immunocytochemistry, or by quantitative culture/IFU after tissue homogenization.

Alternatively, in vivo vaccine composition challenge studies can be performed in the rabbit model of Chlamydia pneumoniae described by Laitinen et al. (1997). Briefly, New Zealand white rabbits (5 months old) are immunized with the vaccine compositions. Post-vaccination, the rabbits are sedated with Hypnorm, 0.3 ml/Kg of body weight, intramuscularly, and inoculated intranasally with a total of 0.5 ml of Chlamydia pneumoniae suspended in SPG medium or with SPG alone. The inoculations of Chlamydia pneumoniae are approximately $3x10^7$ IFU/rabbit. The rabbits are reinfected in the same manner and with the same dose 3 weeks after the primary inoculation. Tissues are then collected 2 weeks after the primary infection and 1, 2, and 4 weeks after the reinfection. The presence of Chlamydia pneumoniae is scored using PCR, histology and immunocytochemistry, or by quantitative culture/IFU after tissue homogenization.

The vaccine compositions comprising nucleotide sequences or vectors into which the said sequences are inserted are in particular described in International Application No. WO 90/11092 and also in International Application No. WO 95/11307.

The nucleotide sequence constituting the vaccine composition according to the invention 15 -may be injected into the host after having been coupled to compounds which promote the penetration of this polynucleotide inside the cell or its transport up to the cell nucleus. The resulting conjugates may be encapsulated into polymeric microparticles, as described in International Application No. WO 94/27238 (Medisorb Technologies International).

According to another embodiment of the vaccine composition according to the invention, the nucleotide sequence, preferably a DNA, is complexed with the DEAE-dextran (Pagano et al., 1967) or with nuclear proteins (Kaneda et al., 1989), with lipids (Felgner et al., 1987) or encapsulated into liposomes (Fraley et al., 1980) or alternatively introduced in the form of a gel facilitating its transfection into the cells (Midoux et al., 1993, Pastore et al., 1994). The polynucleotide or the vector according to the invention may also be in suspension in a buffer solution or may be combined with liposomes.

Advantageously, such a vaccine will be prepared in accordance with the technique described by Tacson et al. or Huygen et al. in 1996 or alternatively in accordance with the technique described by Davis et al. in International Application No. WO 95/11307.

Such a vaccine may also be prepared in the form of a composition containing a vector according to the invention, placed under the control of regulatory elements allowing its expression in humans or animals. It is possible, for example, to use, as vector for the *in vivo* expression of the polypeptide antigen of interest, the plasmid pcDNA3 or the plasmid pcDNA1/neo, both marketed by Invitrogen ® & D Systems, Abingdon, United Kingdom). It is also possible to use the plasmid V1Jns.tPA, described by Shiver et al. in 1995. Such a vaccine will advantageously comprise, in addition to the recombinant vector, a saline solution, for example a sodium chloride solution.

The immunogenic compositions of the invention can also be utilized as part of methods for immunization, wherein such methods comprise administering to a host, e.g., a human host, an

the immunogenic compositions of the invention. In a preferred immunizing amount of embodiment, the method of immunizing is a method of immunizing against Chlamydia pneumoniae.

A pharmaceutically acceptable vehicle is understood to designate a compound or a combination of compounds entering into a pharmaceutical or vaccine composition which does not 5 cause side effects and which makes it possible, for example, to facilitate the administration of the active compound, to increase its life and/or its efficacy in the body, to increase its solubility in solution or alternatively to enhance its preservation. These pharmaceutically acceptable vehicles are well known and will be adapted by persons skilled in the art according to the nature and the mode of administration of the active compound chosen.

As regards the vaccine formulations, these may comprise appropriate immunity adjuvants which are known to persons skilled in the art, such as, for example, aluminum hydroxide, a representative of the family of muramyl peptides such as one of the peptide derivatives of N-acetylmuramyl, a bacterial lysate, or alternatively incomplete Freund's adjuvant, StimulonTM QS-21 (Aquila Biopharmaceuticals, Inc., Framingham, MA), MPLTM (3-O-deacylated monophosphoryl lipid A; RIBI 15 ImmunoChem Research, Inc., Hamilton, MT), aluminum phosphate, IL-12 (Genetics Institute, Cambridge, MA).

Preferably, these compounds will be administered by the systemic route, in particular by the intravenous route, by the intranasal, intramuscular, intradermal or subcutaneous route, or by the oral route. More preferably, the vaccine composition comprising polypeptides according to the 20 invention will be administered several times, spread out over time, by the intradermal or subcutaneous route.

Their optimum modes of administration, dosages and galenic forms may be determined according to criteria which are generally taken into account in establishing a treatment adapted to a patient, such as for example the patient's age or body weight, the seriousness of his general condition, tolerance of the treatment and the side effects observed.

The invention comprises the use of a composition according to the invention for the treatment or the prevention of cardiovascular diseases, preferably linked to the presence of atheroma, which are induced or worsened by Chlamydia pneumoniae.

Finally, the invention comprises the use of a composition according to the invention for 30 the treatment or the prevention of respiratory diseases which are induced or worsened by the presence of Chlamydia pneumoniae, preferably asthma.

Other characteristics and advantages of the invention appear in the following examples and figures:

35 Legend to the figures:

Figure 1: Line for the production of Chlamydia pneumoniae sequences

WO 99/27105

PCT/IB98/01890

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Figure 2: Analysis of the sequences and assembling

Figure 3: Finishing techniques

Figure 3a): Assembly map

Figure 3b): Determination and use of the orphan ends of the contigs

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EXAMPLES

Experimental procedures

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Cells

The *Chlamydia pneumoniae* strain (CM1) used by the inventors is obtained from ATCC (American Culture Type Collection) where it has the reference number ATCC 1360-VR.

It is cultured on HeLa 229 cells, obtained from the American Type Culture Collection, 15 under the reference ATCC CCL-2.1.

Culture of the cells

The HeLa ATCC CCL-2.1 cells are cultured in 75-ml cell culture flasks (Corning). The culture medium is Dulbecco's modified cell culture medium (Gibco BRL No. 04101965) supplemented with MEM amino acids (Gibco BRL - No. 04301140) L (5 ml per 500 ml of medium) and 5% foetal calf serum (Gibco BRL No. 10270 batch 40G8260K) without antibiotics or antifungals.

The cell culture stock is maintained in the following manner. The cell cultures are examined under an inverted microscope. 24 hours after confluence, each cellular lawn is washed with PBS (Gibco BRL No. 04114190), rinsed and then placed for 5 min in an oven in the presence of 3 ml of trypsine (Gibco BRL No. 25200056). The cellular lawn is then detached and then resuspended in 120 ml of culture medium, the whole is stirred in order to make the cellular suspension homogeneous. 30 ml of this suspension are then distributed per cell culture flask. The flasks are kept in a CO₂ oven (5%) for 48 hours at a temperature of 37°C. The cell stock is maintained so as to have available daily 16 flasks of subconfluent cells. It is these subconfluent cells which will be used so as to be infected with Chlamydia. 25-ml cell culture flasks are also used, these flasks are prepared in a similar manner but the volumes used for maintaining the cells are the following: 1 ml of trypsine, 28 ml of culture medium to resuspend the cells, 7 ml of culture medium are used per 25-ml flask.

Infection of the cells with Chlamydia

Initially, the Chlamydiae are obtained frozen from ATCC (-70°C), in suspension in a volume of 1 ml. This preparation is slowly thawed, 500 µl are collected and brought into contact with subconfluent cells, which are obtained as indicated above, in a 25-ml cell culture flask, containing 1 ml of medium, so as to cover the cells. The flask is then centrifuged at 2000 rpm in a "swing" rotor for microtitre plates, the centrifuge being maintained at a temperature of 35°C. After centrifugation,

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the two flasks are placed in an oven at 35°C for three hours. 6 ml of culture medium containing cycloheximide (1 µg/ml) are then added and the flask is stored at 35°C. After 72 hours, the level of infection is evaluated by direct immunofluorescence and by the cytopathogenic effect caused to the cells.

Direct immunofluorescence

Starting with infected cells, which were obtained as indicated above, a cellular smear is deposited with a Pasteur pipette on a microscope slide. The cellular smear is fixed with acetone for 10 minutes; after draining the acetone, the smear is covered with 30 µl of murine monoclonal antibodies directed against MOMP (major outer membrane protein) of Chlamydia (Syva, Biomérieux) labelled with fluorescein isothiocyanate. The whole is then incubated in a humid chamber at a temperature of 37°C. The slides are then rinsed with water, slightly dried, and then after depositing a drop of mounting medium, a coverslip is mounted before reading. The reading is carried out with the aid of a fluorescence microscope equipped with the required filters (excitation at 490 nm, emission at 520 nm).

Harvesting of the Chlamydia pneumoniae

After checking the infection by direct immunofluorescence, carried out as indicated above, the culture flasks are opened under a sterile cabinet, sterile glass beads with a diameter of the order of a millimeter are placed in the flask. The flask is closed and then vigorously stirred while being maintained horizontally, the cellular lawn at the bottom, so that the glass beads can have a mechanical action on the cellular lawn. Most of the cells are thus detached or broken; the effect of the stirring is observed under an optical microscope so as to ensure proper release of Chlamydiae.

Large-scale infection of the cell cultures

The product of the Chlamydiae harvest (culture medium and cellular debris) is collected with a pipette, and distributed into three cell culture flasks containing subconfluent HeLa ATCC CCL-2.1 cells, obtained as indicated above. The cells thus inoculated are placed under gentle stirring (swing) in an oven at 35°C. After one hour, the flasks are kept horizontally in an oven so that the culture medium covers the cells for 3 hours. 30 ml of culture medium containing actydione (1 μg/ml) are then added to each of the flasks. The culture flasks are then stored at 35°C for 72 hours. The cells thus infected are examined under an optical microscope after 24 hours, the cytopathogenic effect is evaluated by the appearance of cytoplasmic inclusions which are visible under an inverted optical microscope. After 72 hours, the vacuoles containing the Chlamydiae occupy the cytoplasm of the cell and push the cell nucleus sideways. At this stage, numerous cells are spontaneously destroyed and have left free elementary bodies in the culture medium. The Chlamydiae are harvested as described above and are either frozen at -80°C or used for another propagation.

Purification of the Chlamydiae

The product of the Chlamydia harvests is stored at -80°C and thawed on a water bath at

room temperature. After thawing, each tube is vigorously stirred for one minute and immersed for one minute in an ultrasound tank (BRANSON 1200); the tubes are then stirred by inverting before being centrifuged for 5 min at 2000 rpm. The supernatant is carefully removed and kept at cold temperature (ice). The supernatant is vigorously stirred and then filtered on nylon filters having pores of 5 microns in diameter on a support (Nalgene) allowing a delicate vacuum to be established under the nylon filter. For each filtration, three nylon filters are superposed; these filters are replaced after every 40 ml of filtrate. Two hundred milliliters of filtration product are kept at cold temperature, and then after stirring by inverting, are centrifuged at 10,000 rpm for 90 min, the supernatant is removed and the pellet is taken up in 10 ml of 10 mM Tris, vigorously vortexed and then centrifuged at 10,000 rpm for 90 min. The supernatant is removed and the pellet is taken up in a buffer (20 mM Tris pH 8.0, 50 mM KCl, 5 mM MgCl₂) to which 800 units of DNAse I (Boehringer) are added. The whole is kept at 37°C for one hour. One ml of 0.5 M EDTA is then added, the whole is vortexed and frozen at -20°C.

Preparation of the DNA

The Chlamydiae purified above are thawed and subjected to a proteinase K (Boehringer) digestion in a final volume of 10 ml. The digestion conditions are the following: 0.1 mg/ml proteinase K, 0.1 × SDS at 55EC, stirring every 10 min. The product of digestion is then subjected to a double extraction with phenol-chloroform, two volumes of ethanol are added and the DNA is directly recovered with a Pasteur pipette having one end in the form of a hook. The DNA is dried on the edge of the tube and then resuspended in 500 μl of 2 mM Tris pH 7.5. The DNA is stored at 4°C for at least 24 hours before being used for the cloning.

Cloning of the DNA

After precipitation, the DNA is quantified by measuring the optical density at 260 nm. Thirty µg of Chlamydia DNA are distributed into 10 tubes of 1.5 ml and diluted in 300 µl of water.

Each of the tubes is subjected to 10 applications of ultrasound lasting for 0.5 sec in a sonicator (unisonix XL2020). The contents of the 10 tubes are then grouped and concentrated by successive extractions with butanol (Sigma B1888) in the following manner: two volumes of butanol are added to the dilute DNA mixture. After stirring, the whole is centrifuged for five minutes at 2500 rpm and the butanol is removed. This operation is repeated until the volume of the aqueous phase is less than 1 ml.

The DNA is then precipitated in the presence of ethanol and of 0.5 M sodium acetate pH 5.4, and then centrifuged for thirty minutes at 15,000 rpm at cold temperature (4°C). The pellet is washed with 75% ethanol, centrifuged for five minutes at 15,000 rpm and dried at room temperature. A tenth of the preparation is analysed on a 0.8% agarose gel. Typically, the size of the DNA fragments thus prepared is between 200 and 8000 base pairs.

To allow the cloning of the DNA obtained, the ends are repaired. The DNA is distributed in an amount of 10 μg/tube, in the following reaction medium: 100 μl final volume, 1 x buffer

(Biolabs 201L), 0.5 μl BSA 0.05 mg/ml, 0.1 mM dATP, 0.1 mM each of dGTP, dCTP or dTTP, 60,000 IU T4 DNA polymerase. The reaction is incubated for thirty minutes at 16°C. The contents of each of the tubes are then grouped before carrying out an extraction with phenol-chloroform and then precipitating the aqueous phase as described above. After this step, the DNA thus prepared is phosphorylated. For that, the DNA is distributed into tubes in an amount of 10 μg per tube, and then in a final volume of 50 μl, the reaction is prepared in the following manner: 1 mM ATP, 1 × kinase buffer, 10 IU T4 polynucleotide kinase (Biolabs 201L). The preparation is incubated for thirty minutes at 37°C. The contents of the tubes are combined and a phenol-chloroform extraction and then a precipitation are carried out in order to precipitate the DNA. The latter is then suspended in 1 μl of water and then the DNA fragments are separated according to their size on a 0.8% agarose gel (1 × TAE). The DNA is subjected to an electric field of 5 V/cm and then visualized on a UV table. The fragments whose size varies between 1200 and 2000 base pairs are selected by cutting out the gel. The gel fragment thus isolated is placed in a tube and then the DNA is purified with the Qiaex kit (20021 Qiagen), according to the procedure provided by the manufacturer.

15 <u>Preparation of the vector</u>

14 μg of the cloning vector pGEM-5Zf (Proméga P2241) are diluted in a final volume of 150 μl and are subjected to digestion with the restriction enzyme EcoRV 300 IU (Biolabs 195S) according to the protocol and with the reagents provided by the manufacturer. The whole is placed at 37°C for 150 min and then distributed in the wells of a 0.8% agarose gel subjected to an electric field of 5 V/cm. The linearized vector is visualized on a UV table, isolated by cutting out the gel and then purified by the Qiaex kit (Qiagen 20021) according to the manufacturer's recommendations. The purification products are grouped in a tube, the volume is measured and then half the volume of phenol is added and the whole is vigorously stirred for 1 min. Half the volume of chloroform-isoamyl alcohol 24:1 is added and vigorously stirred for 1 min. The whole is centrifuged at 15,000 rpm for 5 min at 4°C, the aqueous phase is recovered and transferred into a tube. The DNA is precipitated in the presence of 0.3 M sodium acetate, pH 5.4 and 3 volumes of ethanol and placed at -20°C for 1 hour. The DNA is then centrifuged at 15,000 rpm for 30 min at 4°C, the supernatant is removed while preserving the pellet, washed twice with 70% ethanol. After drying at room temperature, the DNA is suspended in 25 μl of water.

Phosphorylation of the vector

 $25~\mu l$ of the vector prepared in the preceding step are diluted in a final volume of 500 μl of the following reaction mixture:

After repair, the DNA is subjected to a phenol-chloroform extraction and a precipitation, the pellet is then taken up in 10 µl of water, the DNA is quantified by measuring the optical density at 260 nm. The quantified DNA is ligated into the vector PGEm-5Zf(+) prepared by the restriction

enzyme EcoRV and delsphorylated (see preparation of the vector). The ligation is carried out under three conditions the vary in the ratio between the number of vector molecules and the number of insert molecules lically, an equimolar ratio, a ratio of 1:3 and a ratio of 3:1 are used for the ligations which are, moer, carried out under the following conditions: vector PGEm-5Zf(+) 25 ng, cut DNA, ligation bun a final volume of 20 µl with T4 DNA ligase (Amersham E70042X); the whole is then placed infrigerator overnight and then a phenol-chloroform extraction and a precipitation are carried outconventional manner. The pellet is taken up in 5 µl of water.

Transformation of cteria

Plating of theia

Petri dishesining LB Agar medium containing ampicillin (50 μg/ml), Xgal (280 μg/ml) [5-bromo o-indolyl-beta-D-galactopyranoside (Sigma B-4252)], IPTG (140 μg/ml) [isopropyl-biogalactoside (Sigma I-6758)] are used, 50 and 100 μl of bacteria are plated for each of the light Petri dishes are placed upside down at 37°C for 15 to 16 hours in an oven. The number of mant" positive clones is evaluated by counting the white colonies and the blue colonies which ht to contain the vector alone.

Evaluation combinant" positive clones

Ninety-fouolonies and two blue colonies are collected with the aid of sterile cones and are deposited on the wells of plates designed for carrying out the amplification techniques. 30 µl of the reaction mixture are added to each well: 1.7 mM MgCl₂, 0.2 mM each of dATP, dCTP, dTTP, two synthetic oligonucleotides corresponding to sequences flanking the cloning si side and orienting the synthesis of the DNA in a convergent manner (0.5 µM RP and PU practice).

The coloepared are subjected to a temperature of 94°C for 5 min and then to 30 thermal cycles core following steps: 94°C for 40 s, 50°C for 30 s, 72°C for 180 s. The reaction is then kept \$2°C and then kept at 4°C.

The amoducts are deposited on an agarose gel (0.8%), stained with ethidium bromide, subjected tesis, and then analysed on an ultraviolet table. The presence of an amplification fragmize greater than 500 base pairs indicates the presence of an insert. The bacterial clones ared so as to study the sequence of their insert.

Sequencing

To sequence of the clones obtained as above, these were amplified by PCR on bacteria cultures chaight using the primers for the vectors flanking the inserts. The sequence of the enserts (on average 500 bases on each side) was determined by automated fluorese on an ABI 377 sequencer, equipped with the ABI Prism DNA Sequencing Analysision 2.1.2).

Analysis o

The sequences · obtained by sequencing in a high-yield line (Figure 1) are stored in a database; this part of the production is independent of any treatment of the sequences. The sequences are extracted from the database, avoiding all the regions of inadequate quality, that is to say the regions for which uncertainties are observed on the sequence at more than 95%. After extraction, the sequences are introduced into a processing line, the diagram of which is described in Figure 2. In a first path of this processing line, the sequences are assembled by the Gap4 software from R. Staden (Bonfield et al., 1995) (OS UNIX/SUN Solaris); the results obtained by this software are kept in the form of two files which will be used for a subsequent processing. The first of these files provides information on the sequence of each of the contigs obtained. The second file represents all the clones participating in the composition of all the contigs as well as their positions on the respective contigs.

The second processing path uses a sequence assembler (TIGR-Asmg assembler UNIX/SUN Solaris); the results of this second processing path are kept in the form of a file in the TIGR-Asmg format which provides information on the relationship existing between the sequences selected for the assembly. This assembler is sometimes incapable of linking contigs whose ends 15 overlap over several hundreds of base pairs.

The results obtained from these two assemblers are compared with the aid of the BLAST program, each of the contigs derived from one assembly path being compared with the contigs derived from the other path.

For the two processing paths, the strict assembly parameters are fixed (95% homology, 20 30 superposition nucleotides). These parameters avoid 3 to 5% of the clones derived from eukaryotic cells being confused with sequences obtained from the clones derived from Chlamydia pneumoniae. The eukaryotic sequences are however preserved during the course of this project; the strategy introduced, which is described below, will be designed, inter alia, not to be impeded by these sequences derived from contaminating clones.

The results of these two assemblers are processed in a software developed for this project. This software operates on a Windows NT platform and receives, as data, the results derived from the STADEN software and/or the results derived from the TIGR-Asmg assembler, the software, results, after processing of the data, in the determination of an assembly map which gives the proximity relationship and the orientation of the contigs in relation to one another (Figure 3a). Using 30 this assembly map, the software determines all the primers necessary for finishing the project. This treatment, which will be detailed below, has the advantage of distinguishing the isolated sequences derived from the contaminations, by the DNA eukaryotic cells, of the small-sized sequences clearly integrated into the project by the relationships which they establish with contigs. In order to allow, without any risk of error, the arrangement and the orientation of the contigs in relation to one another, 35 a statistical evaluation of the accuracy of the names (naming) "naming" of sequence is made from the results of "contigation". This evaluation makes it possible to give each of the clone plates, as well as each of the subsets of plates, a weight which is inversely proportional to probable error rate existing in

the "naming" of the sequences obtained from this plate or from a subset of this plate. In spite of a low error rate, errors may occur throughout the steps of production of the clones and of the sequences. These steps are numerous, repetitive and although most of them are automated, others, like the deposition in the sequencers, are manual; it is then possible for the operator to make mistakes such as the inversion of two sequences. This type of error has a repercussion on the subsequent processing of the data, by resulting in relationships (between the contigs) which do not exist in reality, then in attempts at directed sequencing between the contigs which will end in failure. It is because of this that the evaluation of the naming errors is of particular importance since it allows the establishment of a probabilistic assembly map from which it becomes possible to determine all the clones which will serve as template to obtain sequences separating two adjacent contigs. Table 2 of parent U.S. application serial No. 60/107078 filed November 4, 1998 and French application 97-14673 filed November 21, 1997, each of which is incorporated by reference herein in its entirety, gives the clones and the sequences of the primers initially used during the initial operations.

To avoid the step which consists in ordering and then preparing the clones by 15 -conventional microbiological means, outer and inner primers oriented towards the regions not yet sequenced are defined by the software. The primers thus determined make it possible to prepare, by PCR, a template covering the nonsequenced region. It is the so-called outer primers (the ones most distant from the region to be sequenced) which are used to prepare this template. The template is then purified and a sequence is obtained on each of the two strands during 2 sequencing reactions which 20 each use one of the 2 inner primers. In order to facilitate the use of this approach, the two outer primers and the two inner primers are prepared and then stored on the same position of 4 different 96well plates. The two plates containing the outer primers are used to perform the PCRs which will serve to prepare the templates. These templates will be purified on purification columns preserving the topography of the plates. Each of the sequences will be obtained using primers situated on one and 25 then on the other of the plates containing the inner primers. This distribution allows a very extensive automation of the process and results in a method which is simple to use for finishing the regions not yet sequenced. Table 3 of parent U.S. application serial No. 60/107078 filed November 4, 1998 and French application 97-14673 filed November 21, 1997, each of which is incorporated by reference herein in its entirety, gives the names and the sequences of the primers used for finishing Chlamydia 30 pneumoniae.

Finally, a number of contigs exist in a configuration where one of their ends is not linked to any other contig end (Figure 3b) by a connecting clone relationship (a connecting clone is defined as a clone having one sequence end on a contig and the other end of its sequence on another contig; furthermore, this clone must be derived from a plate or a subset of plates with adequate naming quality). For the *Chlamydia pneumoniae* project, this particular case occurred 24 times. Two adjacent PCR primers orienting the synthesis of the DNA towards the end of the consensus sequence are defined for each of the orphan ends of the consensus sequence. The primer which is closest to the end

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of the sequence is called the inner primer whereas the primer which is more distant from the end of the sequence is called the outer primer. The outer primers are used to explore the mutual relationship between the orphan ends of the different contigs. The presence of a single PCR product and the possibility of amplifying this product unambiguously using the inner primers evokes the probable relationship between the contigs on which the primers which allowed the amplification are situated. This relationship will be confirmed by sequencing and will allow the connection between the orphan ends of the consensus sequences. This strategy has made it possible to obtain a complete map of the Chlamydia pneumoniae chromosome and then to finish the project.

Quality control

All the bases not determined with certainty in the chromosomal sequence were noted and the density of uncertainties was measured on the entire chromosome. The regions with a high density of uncertainties were noted and the PCR primers spanning these regions were drawn and are represented in Table 4 of parent U.S. application serial No. 60/107078 filed November 4, 1998 and French application 97-14673 filed November 21, 1997 each of which is incorporated by reference 15 herein in its entirety.

The sequence of each of the PCR products was obtained with two operational primers different from the amplification primers. The sequences were obtained in both directions for all the PCRs (100% success).

Data banks

Local reorganizations of major public banks were used. The protein bank used consists of the nonredundant fusion of the Genpept bank (automated translation of GenBank, NCBI; Benson et al., 1996).

. The entire BLAST software (public domain, Altschul et al., 1990) for searching for homologies between a sequence and protein or nucleic data banks was used. The significance levels 25 used depend on the length and the complexity of the region tested as well as the size of the reference bank. They were adjusted and adapted to each analysis.

The results of the search for homologies between a sequence according to the invention and protein or nucleic data banks are presented and summarized in Table 1 below.

30 Table 1: List of coding chromosome regions and homologies between these regions and the sequence banks.

Legend to Table 1: Open reading frames are identified with the GenMark software version 2.3A (GenePro), the template used is Chlamydia pneumoniae of order 4 on a length of 196 nucleotides with a window of 12 nucleotides and a minimum signal of 0.5. The reading frames 35 ORF2 to ORF 1137 are numbered in order of appearance on the chromosome, starting with ORF2 (ORF column). The positions of the beginning and of the end are then given in column 2 (position). When the position of the beginning is greater than the position of the end, this means that the region is

encoded by the strand complementary to the sequence which was given in the sequence SEQ ID No. 1.

All the putative products were subjected to a search for homology on GENPEPT (release 102 for SEQ ID No. 2 to SEQ ID No. 1137, and release 108 for SEQ ID No. 1138 to SEQ ID No. 1291 and SEQ ID No. 6844 to SEQ ID No. 6849) with the BLASTP software (Altschul et al. 1990). With, as parameters, the default parameters with the exception of the expected value E set at 10⁻⁵ (for SEQ ID No. 2 to SEQ ID No. 1137) and P value set at e⁻¹⁰ (for SEQ ID No. 1138 to SEQ ID No. 1291 and SEQ ID No. 6844 to SEQ ID No. 6849). Subsequently, only the identities greater than 30% (I% column) were taken into account. The description of the most homologous sequence is given in the Homology column; the identifier for the latter sequence is given in the ID column and the animal species to which this sequence belongs is given in the Species column. The Homology score is evaluated by the sum of the blast scores for each region of homology and reported in the Score column.

Materials and Methods for transmembrane domains:

The DAS software was used as recommended by the authors (Cserzo et al., 1997).

This method uses, to predict the transmembrane domains, templates derived from a sampling of selected proteins. All the regions for which a "Cutoff" greater than 1.5 was found by the program were taken into account.

20 <u>Additional ORF Finder Programs</u>

For this analysis, two additional ORF finder programs were used to predict potential open reading frames of a minimum length of 74 amino acids; Glimmer (Salzberg, S.L., Delcher, A., Kasif, S., and W. White. 1998. Microbial gene identification using interpolated Markov models. Nucleic Acids Res. 26:544-548.), and an in-house written program. The in-house program used a very simple search algorithm. The analysis required the that the genomic DNA sequence text be in the 5' to 3' direction, the genome is circular, and that TAA, TAG, and TGA are stop codons. The search parameters were as follows:

- (1) A search for an ORF that started with a GTG codon was performed. If no GTG codons were found, then a search for an ATG codon was performed. However, if a GTG codon was found, then a search downstream for a ATG codon was performed. All start and stop nucleotide positions were recorded.
 - (2) A search for an ORF that started with a TTG codon was performed. If no TTG codons were found, then a search for a ATG codon was performed. However, if a TTG codon was found, then a search downstream for a ATG codon was performed. All start and stop nucleotide positions were recorded.
 - (3) The analysis described in steps 1 and 2 were repeated for the opposite strand of DNA sequence.

- A search for ORFs that determined all ORF lengths using start and stop positions in the (4)same reading frames was performed.
- All ORFs whose DNA length was less than 225 nucleotides were eliminated from the search. **(5)**

Surface Exposed Protein Search Criteria 5

Potential cell surface vaccine targets are outer membrane proteins such as porins, lipoproteins, adhesions and other non-integral proteins. In Chlamydia psittaci, the major immunogens is a group of putative outer membrane proteins (POMPs) and no homologs have been found in Chlamydia pneumoniae and Chlamydia trachomatis by traditional analysis (Longbottom, D., Russell, 10 M., Dunbar, S.M., Jones, G.E., and A.J. Herring. 1998. Molecular Cloning and Characterization of the

Genes Coding for the Highly Immunogenic Cluster of 90-Kilodalton Envelope Proteins from Chlamydia psittaci Subtype That Causes Abortion in Sheep. Infect Immun 66:1317-1324.) Several putative outer membrane proteins have been identified in Chlamydia pneumoniae, all of which may represent vaccine candidates. The major outer membrane protein (MOMP) gene (omp1) has been

15 found in various isolates of Chlamydia pneumoniae (Jantos, CA., Heck, S., Roggendorf, R., Sen-Gupta, M., and Hegemann, JH. 1997. Antigenic and molecular analyses of different chlamydia pneumoniae strains. J. Clin Microbiology 35(3):620-623.) Various criteria, as listed below, were used to identify putative surface exposed ORFs from the genomic DNA sequence of Chlamydia pneumoniae (French application 97-14673 filed 21 November 1997). Any ORF which met any one or 20

more of the individual criteria were listed in this category.

Protein homology searches were done using the Blastp 2.0 tool (Altschul, S.F., Madden, T.L., Schaffer, A.A., Zhang, J., Zhang, Z., Miller, W., and D.J. Lipman. 1997. Gapped BLAST and PSI-BLAST: a new generation of protein database search programs. Nucleic Acids Res. 25:3389-An ORF product was labeled surface exposed if there was homology to a known, or 3402.) 25 hypothetical, or putative surface exposed protein with a P score better than e-10.

Most, if not all, proteins that are localized to the membrane of bacteria, via a secretory pathway, contain a signal peptide. A software program, SignalP, analyzes the amino acid sequence of an ORF for such a signal peptide (Nielsen, H., Engelbrecht. J., Brunak, S., and G. von Heijne. 1997. Identification of prokaryotic and eukaryotic signal peptides and prediction of their cleavage sites. 30 Protein Engineering 10:1-6.) The first 60 N-terminal amino acids of each ORF were analyzed by SignalP using the Gram-Negative software database. The output generates four separate values, maximum C, maximum Y, maximum S, and mean S. The S-score, or signal region, is the probability of the position belonging to the signal peptide. The C-score, or cleavage site, is the probability of the position being the first in the mature protein. The Y-score is the geometric average of the C-score and 35 a smoothed derivative of the S-score. A conclusion of either a Yes or No is given next to each score. If all four conclusions are Yes and the C-terminal amino acid is either a phenylalanine (F) or a tyrosine (Y), the ORF product was labelled outer membrane (Struyve, M., Moons, M., and J. Tommassen.

1991. Carboxy-terminal Phenylalanine is Essential for the Correct Assembly of a Bacterial Outer Membrane Protein. J. Mol. Biol. 218:141-148.)

The program called Psort, determines the localization of a protein based on its signal sequence, recognition of transmembrane segments, and analysis of its amino acid composition (Nakai, K., and M. Kanehisa. 1991. Expert system for predicting protein localization sites in gram-negative bacteria. Proteins 11:95-110.) -An ORF product is considered to be an outer membrane protein if the output data predicts the protein as outer membrane with a certainty value of 0.5 or better and whose value is at least twice as large as the next predicted localized certainty value.

Finally, ORF products that were not predicted to be outer membrane or surface exposed, based on the above criteria, were further analyzed. The blastp output data for these ORFs were searched using various general and specific keywords, suggestive of known cell surface exposed proteins. An ORF was labeled surface exposed if the keywords matched had a Blastp hit, had a P score better than e⁻¹⁰, and that there was no better data indicating otherwise. The following is a list of the searched keywords:

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	Adhesion	Adhesin	Invasin	Invasion	Extensin	
	Omp	Outer Surface	Porin	Outer Membra	ne	
	Cell Surface	Cell Wall	Pilus	Pilin	Flagellar sheath	BtuB
	Cir	ChuA	CopB	ExeD	FadL	FecA
20	FepA	FhuA	FmdC	FomA	FrpB	GspD
	HemR	HgbA	Hgp	HmbR	HmuR	HMW
	HrcC	Hrp	InvG	LamB	LbpA	LcrQ
	Lmp1	MxiD	MOMP	PilE	НраА	NolW
	NspA	OpcP	OpnP	Opr	OspA	PhoE
25	PldA	Por	PscC	PulD	PupA	QuiX
	RafY	ScrY	SepC	ShuA	SomA	SpiA
	Tbp1	Yop	YscC	mip	Tol	• '

Those ORFs that did not meet the minimum requirement for being an outer membrane protein based on the above search criteria but which were homologous to identified outer membrane ORFs in Chlamydia trachomatis were included. The Chlamydia trachomatis genome (French patent applications FR97-15041, filed 28 November 1997 and 97-16034 filed 17 December 1997) was analyzed using the above search criteria and a number of outer membrane ORFs were identified. These Chlamydia trachomatis ORFs were then tested against the Chlamydia pneumoniae genome using Blastp. Any Chlamydia pneumoniae ORF with a Blastp P value better than e⁻¹⁰ against a Chlamydia trachomatis outer membrane was included in this section, if there was no better data

indicating otherwise. A list of ORFs in the *Chlamydia pneumoniae* genome encoding putative surface exposed proteins is set forth above in the specification.

Identification of Putative Lipoproteins in the Genome of Chlamydia pneumoniae

Lipoproteins are the most abundant post-translationally modified bacterial 5 secretory proteins (Pugsley, A. P., 1993. The complete general secretory pathway in Gramnegative bacteria. Microbiol. Rev. 57:50-108). The characteristic features of lipoproteins are a thiol-linked diacylglyceride and an amine-linked monoacyl group on the cysteine that becomes the amino-terminal residue after signal peptide cleavage by Signal Peptidase II. 10 (Pugsley, A. P., 1993. The complete general secretory pathway in Gram-negative bacteria. Microbiol. Rev. 57:50-108). The identification of putative lipoproteins from the genomic sequencing of Chlamydia pneumoniae was done by examining the deduced amino acid sequence of identified ORFs for the presence of a signal peptide with a Signal Peptidase II cleavage site analogous to the consensus sequence for prolipoprotein modification and 15 processing reactions (Hayashi, S., and H. C. Wu. 1992. Identification and characterization of lipid-modified proteins in bacteria, p. 261-285. In N. M. Hooper and A. J. Turner (ed.) Lipid modification of proteins: A practical approach. Oxford University Press, New York; Sutcliffe, I. C. and R. R. B. Russell. 1995. Lipoproteins of Gram-positive bacteria. J. Bacteriol. 177:1123-1128.).

Chlamydia pneumoniae ORFs were initially screened for the most basic of lipoprotein characteristics, a cysteine in the first 30 amino acids of the deduced protein. ORFs with a standard start codon (ATG, GTG, or TTG) and having one or more of the following characteristics were selected for direct analysis of their first 30 amino acids:

(a) Significant Signal P value (at least two out of the four values are Yes)

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- (b) PSORT value indicating membrane passage (IM-inner membrane, Peri-periplasm, or OM-outer membrane)
- (c) Identification of the word lipoprotein among the ORF blastp data set.
- 30 (d) A Blastp value of <e⁻¹⁰ with a putative lipoprotein from Chlamydia trachomatis (French applications 97-15041 filed 28 November 1997 and 97-16034 filed 17 December 1997).

The first 30 amino acids of each ORF in this set were analyzed for the characteristics commonly found in lipoprotein signal peptides (Pugsley, A. P., 1993. The complete general secretory pathway in Gram-negative bacteria. Microbiol. Rev. 57:50-108; Hayashi, S., and H. C. Wu. 1992.

Identification and characterization of lipid- modified proteins in bacteria, p. 261-285. In N. M. Hooper and A. J. Turner (ed.) Lipid modification of proteins: A practical approach. Oxford University Press, New York; Sutcliffe, I. C. and R. R. B. Russell. 1995. Lipoproteins of Gram-positive bacteria. J. Bacteriol. 177:1123-1128.) Putative lipoprotein signal peptides were required to have a cysteine between amino acid 10 and 30 and reach a minimum score of three based on the following criteria for lipoprotein signal peptides:

- (a) Identification of specific amino acids in specific positions around the cysteine which are part of the consensus Signal Peptidase II cleavage site (Hayashi, S., and H. C. Wu. 1992. Identification and characterization of lipid-modified proteins in bacteria, p. 261-285. In N. M. Hooper and A. J. Turner (ed.) Lipid modification of proteins: A practical approach. Oxford University Press, New York); Sutcliffe, I. C. and R. R. B. Russell. 1995. Lipoproteins of Gram-positive bacteria. J. Bacteriol. 177:1123-1128). Since the identification of the cleavage site is the most important factor in identifying putative lipoproteins, each correctly positioned amino acid contributed toward reaching the minimum score of three. (b) A hydrophobic region rich in alanine and leucine prior to the cleavage site (Pugsley, A. P.. 1993. The complete general secretory pathway in Gram-negative bacteria. Microbiol. Rev. 57:50-108) contributed toward reaching the minimum score of three.
 - (c) A short stretch of hydrophilic amino acids greater than or equal to 1 usually lysine or arginine following the N-terminal methionine (Pugsley, A. P.. 1993. The complete general secretory pathway in Gram-negative bacteria. Microbiol. Rev. 57:50-108) contributed toward reaching the minimum score of three.

A list of ORFs in the *Chlamydia pneumoniae* genome encoding putative lipoproteins is set forth above in the specification.

25 <u>LPS-Related ORFs of Chlamydia pneumoniae</u>

Lipopolysaccharide (LPS) is an important major surface antigen of Chlamydia cells. Monoclonal antibodies (Mab) directed against LPS of Chlamydia pneumoniae have been identified that can neutralize the infectivity of Chlamydia pneumoniae both in vitro and in-vivo (Peterson, E.M., de la Maza, L.M., Brade, L., Brade, H. 1998. Characterization of a Neutralizing Monoclonal 30 Antibody Directed at the Lipopolysaccharide of Chlamydia pneumonia. Infect. Immun. Aug. 66(8):3848-3855.) Chlamydial LPS is composed of lipid A and a core oligosaccharide portion and is phenotypically of the rough type (R-LPS) (Lukacova, M., Baumann, M., Brade, L., Mamat, U., Brade, H. 1994. Lipopolysaccharide Smooth-Rough Phase Variation in Bacteria of the Genus Chlamydia. Infect. Immun. June 62(6):2270-2276.) The lipid A component is composed of fatty acids which serve to anchor LPS in the outer membrane. The core component contains sugars and sugar derivatives such as a trisaccharide of 3-deoxy-D-manno-octulosonic acid (KDO) (Reeves, P.R., Hobbs, M., Valvano, M.A., Skurnik, M., Whitfield, C., Coplin, D., Kido, N., Klena, J., Maskell, D.,

Raetz, C.R.H., Rick, P.D. 1996. Bacterial Polysaccharide Synthesis and Gene Nomenclature pp. 10071-10078, Elsevier Science Ltd.). The KDO gene product is a multifunctional glycosyltransferase and represents a shared epitope among the Chlamydia. For a review of LPS biosynthesis see, e.g., Schnaitman, C.A., Klena, J.D. 1993. Genetics of Lipopolysaccharide Biosynthesis in Enteric Bacteria. Microbiol. Rev. 57:655-682.

A text search of the ORF blastp results identified several genes that are involved in Chlamydial LPS production with a P score better than e⁻¹⁰. The following key-terms were used in the text search: KDO, CPS (Capsular Polysaccharide Biosynthesis), capsule, LPS, rfa, rfb, rfc, rfe, rha, rhl, core, epimerase, isomerase, transferase, pyrophosphorylase, phosphatase, aldolase, heptose, manno, glucose, lpxB, fibronectin, fibrinogen, fucosyltransferase, lic, lgt, pgm, tolC, rol, ChoP, phosphorylcholine, waaF, PGL-Tb1. A list of ORFs in the *Chlamydia pneumoniae* genome encoding putative polypeptides involved in LPS biosynthesis is set forth above in the specification.

Type III And Other Secreted Products

Type III secretion enables gram-negative bacteria to secrete and inject pathogenicity proteins into the cytosol of eukaryotic host cells (Hueck, C. J., 1998. Type III Protein Secretion Systems in Bacterial Pathogens of Animals and Plants. In Microbiology and Molecular Biology Reviews. 62:379-433.) These secreted factors often resemble eukaryotic signal transduction factors, thus enabling the bacterium to redirect host cell functions (Lee, C.A., 1997. Type III secretion systems: machines to deliver bacterial proteins into eukaryotic cells? Trends Microbiol. 5:148-156.) In an attempt to corrupt normal cellular functions, Chlamydial pathogenicity factors injected into the host cytosol will nonetheless, as cytoplasmic constituents be processed and presented in the context of the Major Histocompatibility Complex (MHC class I). As such, these pathogenicity proteins represent MHC class I antigens and will play an important role in cellular immunity. Also included in this set are secreted non-type III products that may play a role as vaccine components.

A text search of the ORF blastp results identified genes that are involved in *Chlamydia pneumoniae* protein secretion with a P score better than e⁻¹⁰. The following key-terms were used in the text search in an effort to identify surface localized or secreted products: Yop, Lcr, Ypk, Exo, Pcr, Pop, Ipa, Vir, Ssp, Spt, Esp, Tir, Hrp, Mxi, hemolysin, toxin, IgA protease, cytolysin, tox, hap, secreted and Mip.

Chlamydia pneumoniae ORFs that did not meet the above keyword search criteria, but have homologs in Chlamydia trachomatis that do meet the search criteria are included herein. The Chlamydia trachomatis genome (French patent applications FR97-15041, filed 28 November 1997 and 97-16034 filed 17 December 1997) was analyzed using the above search criteria and a number of ORFs were identified. These Chlamydia trachomatis ORFs were tested against the Chlamydia pneumoniae genome using Blastp. Any Chlamydia pneumoniae ORF with a Blastp P value < e⁻¹⁰ against a Chlamydia trachomatis homolog, identified using the above search criteria, was included. A

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list of ORFs in the Chlamydia pneumoniae genome encoding putative secreted proteins is in the specification.

Chlamydia pneumoniae: RGD Recognition Sequence

Proteins that contain Arg-Gly-Asp (RGD) attachment site, together with integrins that serve as their receptor constitute a major recognition system for cell adhesion. The RGD sequence is the cell attachment site of a large number of adhesive extracellular matrix, blood, and cell surface proteins and nearly half of the known integrins recognize this sequence in their adhesion protein ligands. There are many RGD containing microbial proteins such as the penton protein of adenovirus, 10 the coxsackie virus, the foot and mouth virus and pertactin, a 69 kDa (kilodalton) surface protein of Bordetella pertussis, that serve as ligands through which these microbes bind to integrins on the cell surfaces and gain entry into the cell. The following provides evidence supporting the importance of RGD in microbial adhesion:

- a) The adenovirus penton base protein has a cell rounding activity and when penton base was expressed in E. coli, it caused cell rounding and cells adhered to polystyrene wells coated with the protein. Mutant analysis showed that both these properties required an RGD sequence. Virus mutants with amino acid substitutions in the RGD sequence, showed much less adherence to HeLa S3 cells, and also were delayed in virus reproduction (Bai, M., Harfe, B., and Freimuth, P. 1993. Mutations That Alter an RGD Sequence in the Adenovirus Type 2 Penton Base Protein Abolish Its Cell-Rounding Activity and Delay Virus Reproduction in Flat Cells. J. Virol. 67:5198-5205).
- b) It has been shown that attachment and entry of coxsackie virus A9 to GMK cells were dependent on an RGD motif in the capsid protein VP1. VP1 has also been shown to bind $\alpha_v \beta_3$ integrin, which is a vitronectin receptor (Roivainen, M., Piirainen, L., Hovi, T., Virtanen, I., Riikonen, T., Heino, J., and Hyypia, T. 1994. Entry of Coxsackievirus A9 into Host Cells: Specific Interactions with a₂b₃ Integrin, the Vitronectin Receptor Virology, 203:357-65).
- During the course of whooping cough, Bordetella pertussis interacts with alveolar macrophages and other leukocytes on the respiratory epithelium. Whole bacteria adheres by means of two proteins, filamentous hemagglutinin (FHA) and pertussis toxin. FHA interacts with two classes of molecules on macrophages, galactose containing glycoconjugates and the integrin CR3. The interaction between CR3 and FHA involves recognition of RGD sequence at the positions 1097-1099 in FHA (Relman, D., Tuomanen, E., Falkow, S., Golenbock, D. T., Saukkonen, K., and Wright, S. D. "Recognitition of a Bacterial Adhesin by an Integrin: Macrophage CR3 Binds Filamentous Hemagglutinin of Bordetella Pertussis." Cell, 61:1375--1382 (1990)).

- d) Pertactin, a 69 kDa outer membrane protein of *Bordetella pertussis*, has been shown to promote attachment of Chinese hamster ovary cells (CHO). This attachment is mediated by recognition of RGD sequence in pertactin by integrins on CHO cells and can be inhibited by synthetic RGD containing peptide homologous to the one present in pertactin (Leininger, E., Roberts, M., Kenimer, J. G., Charles, I. G., Fairweather, N., Novotny, P., and Brennan, M. J. 1991. Pertactin, an Arg-Gly-Asp containing *Bordetella pertussis* surface protein that promotes adherence of mammalian cells Proc. Natl. Acad. Sci. USA, 88:345-349).
- e) The RGD sequence is highly conserved in the VP1 protein of foot and mouth disease virus (FMDV). Attachment of FMDV to baby hamster kidney cells (BHK) has been shown to be mediated by VP1 protein via the RGD sequence. Antibodies against the RGD sequence of VP1 blocked attachment of virus to BHK cells (Fox, G., Parry, N. R., Barnett, P. V., McGinn, B., Rowland, D. J., and Brown, F. 1989. The Cell Attachment Site on Foot-and-Mouth Disease Virus Includes the Amino Acid Sequence RGD (Arginine-Glycine-Aspartic Acid) J. Gen. Virol., 70:625-637).

It has been demonstrated that bacterial adherence can be based on interaction of a bacterial adhesin RGD sequence with an integrin and that bacterial adhesins can have multiple binding site characteristic of eukaryotic extracellular matrix proteins. RGD recognition is one of the important mechanisms used by microbes to gain entry into eukaryotic cells.

The complete deduced protein sequence of the Chlamydia pneumoniae genome was searched for the presence of RGD sequence. There were a total of 54 ORFs that had one or more RGD sequences. Not all RGD containing proteins mediate cell attachment. It has been shown that RGD containing peptides that have proline immediately following the RGD sequence are inactive in cell attachment assays (Pierschbacher & Ruoslahti. 1987. Influence of stereochemistry of the sequence Arg-Gly-Asp-Xaa on binding specificity in cell adhesion. J. Biol. Chem. 262:17294-98). ORFs that had RGD, with proline as the amino acid following the RGD sequence were excluded from the list. Also, RGD sequence may not be available at the surface of the protein or may be present in a context that is not compatible with integrin binding. Since not all RGD- containing proteins are involved in cell attachment, several other criteria were used to refine the list of RGD- containing proteins. A list of ORFs in the Chlamydia pneumoniae genome encoding polypeptides with RGD recognition sequence(s) is in the specification.

Non-Chlamydia trachomatis ORFs

35 Chlamydia pneumoniae ORFs were compared to the ORFs in the Chlamydia trachomatis genome (French patent applications FR97-15041, filed 28 November 1997 and 97-16034 filed 17 December 1997) using Blastp. Any Chlamydia pneumoniae ORF with a Blastp P value worse than e

(i.e. >e⁻¹⁰) against *Chlamydia trachomatis* ORFs are included in this section. A list of ORFs in the *Chlamydia pneumoniae* genome which are not found in *Chlamydia trachomatis* is set forth above in the specification.

Cell Wall Anchor Surface ORFs

Many surface proteins are anchored to the cell wall of Gram-positive bacteria via the conserved LPXTG motif (Schneewind, O., Fowler, A., and Faull, K.F. 1995. Structure of the Cell Wall Anchor of Surface Proteins in Staphylococcus aureus. Science 268:103-106). A search of the Chlamydia pneumoniae ORFs was done using the motif LPXTG. A list of ORFs in the Chlamydia pneumoniae genome encoding polypeptides anchored to the cell wall is in the specification.

ATCC Deposits

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Samples of *Chlamydia pneumoniae* were deposited with the American Type Culture Collection (ATCC), Rockville, Maryland, on November 19, 1998 and assigned the accession number —. Cells can be grown, harvested and purified, and DNA can be prepared as discussed above. In order to enable recovery of specific fragments of the chromosome, one can run targeted PCR reactions, whose amplification products can then be sequenced and/or cloned into any suitable vector, according to standard procedures known to those skilled in the art.

In addition, a sample of three pools of clones covering chromosomal regions of interest were deposited with the American Type Culture Collection (ATCC), Rockville, Maryland, on November 19, 1998 and assigned the indicated accession number: — . Each pool of clones contains a series of clones. When taken together, the three pools in the sample cover a portion of the chromosome, with a redundancy of slightly more than two. The total number of clones in the sample is 196.

The clones cover the following three regions of interest:

- (i) position 30,000 to 40,000 of SEQ ID No. 1, referred to as region A;
- (ii) position 501,500 to 557,000 of SEQ ID No. 1, referred to as region B; and
- (iii) position 815,000 to 830,000 of SEQ ID No. 1, referred to as region C.

Table 4 lists groups of oligonucleotides to be used to amplify each of ORFs 2-1291 according to standard procedures known to those skilled in the art. Such oligonucleotides are listed as SEQ ID Nos. 1292 to 6451. For each ORF, the following is listed: one forward primer positioned 2,000 bp upstream of the beginning of the ORF; one forward primer positioned 200 bp upstream of the beginning of the ORF; one reverse primer positioned 2,000 bp downstream at the end of ORF, which is 2,000 bp upstream of the end site of the ORF on the complementary strand; and one reverse primer 200 bp downstream at the end of ORF, which is 200 bp upstream of the end site of the ORF on the complementary strand. The corresponding SEQ ID Nos. for the primers are listed in Table 4, where Fp is the proximal forward primer; Fd is the distal forward

primer; Bp is the proximal reverse primer; and Bd is the distal reverse primer. The positions of the 5' ends of each of these primers on the nucleotide sequence of SEQ ID No. 1 are shown in Table 5.

Table 6 lists oligonucleotides (SEQ ID Nos. 6452-6843) to be used to amplify the inserts of each of the 196 clones present in the pooled sample according to standard procedures well known to those of skill in the art. These primers can also be utilized to amplify the chromosomal region corresponding to the region A, B or C within which the particular insert lies. Their positions are indicated in Table 7.

The present invention is not to be limited in scope by the specific embodiments described herein, which are intended as single illustrations of individual aspects of the invention, and functionally equivalent methods and components are within the scope of the invention. Indeed, various modifications of the invention, in addition to those shown and described herein will become apparent to those skilled in the art from the foregoing description and accompanying drawings. Such modifications are intended to fall within the scope of the appended claims.

All publications and patent applications mentioned in this specification are herein incorporated by reference to the same extent as if each individual publication or patent application was specifically and individually indicated to be incorporated by reference.

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	:		TABLE 1				
ORF	Begin	End	Homology	a	Species	Score	%I
ORF2	42	794	triosephosphate isomerase	L27492	Thermotoga maritima	267	54
ORF3	1258	1614	putative		C		•
ORF4	1807	2418	polypeptide deformylase	D90906	Synechocystis sp.	316	40
ORF5	3393	2491	hypothetical protein	Z75208	Bacillus subtilis	338	42
ORF6	3639	4067	unknown	U87792	Bacillus subtilis	117	38
ORF7	5649	4270	putative				
ORF8	7463	6012	putative				
ORF9	8051	8962	putative				
ORF10	9129	6566	putative				
ORF11	10687	10361	putative				T
ORF12	10927	11232	putative				
ORF13	11246	12727	amidase	U49269	Moraxella catarrhalis	1108	42
ORF14	12691	14190	PET112	D90913	Synechocystis sp.	1044	46
ORF15	14484	17249	POMP91A	U65942	Chlamydia psittaci	1074	43
ORF16	16039	15770	putative				
ORF17	17845	20853	putative				T
ORF18	21137	22042	putative				
ORF19	22046	23476	putative				T
ORF20	23681	26110	putative				T
ORF21	26109	25861	putative				
ORF22	26241	26978	putative				T
ORF23	26960	27754	putative	-			
ORF24	27747	28577	putative				
ORF25	28887	29492	POMP91A	U65942	Chlamydia psittaci	180	39
ORF26	29432	30028	POMP91A	U65942	Chlamydia psittaci	361	51
ORF27	30024	31472	POMP91A	U65942	Chlamydia psittaci	879	54
ORF28	31758	32288	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	141	43
ORF29	32201	33991	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	1126	84
ORF30	33852	34541	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	589	62
ORF31	34783	36063	POMP91B precursor	U65943	Chlamydia psittaci	469	46
ORF32	36009	37529	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	1338	51
ORF33	37881	39362	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	671	40

%I		47				44	43		39	-		37	54	47			45	36	3	20		55		36	35	34			33		52
Score		904				136	569		878			404	1232	781			975	329	707	20		134		136	381	123		-	128		596
Species		Chlamydia psittaci				Bacillus subtilis	Escherichia coli	``	Helicobacter pylori			Synechocystis sp.	Homo sapiens	Schizosaccharomyces pombe			Legionella pneumophila	Bacillus subtilis	D : 11 1.:	Bacılıus subinis		Synechocystis sp.		Bacillus subtilis	Haemophilus influenzae	Escherichia coli			Bacillus subtillis		Bacillus subtilis
OI .	-	U65942				M96343	AE000184		AE000596			D64001	X74215	Z54285			U15010	M97391	100001	M9/391		D90903		X12832	U32844	AE000326			X17014		X06803
Homology	putative	POMP90A precursor	putative	putative	putative	homologous to unidentified E. coli protein	o530; This 530 aa orf is 33 pct identical (14	gaps) to 525 residues of an approx. 640 aa	ABC transporter, ATP-binding protein	(yheS)	putative	hypothetical protein	Lon protease-like protein	unknown	putative	putative	heat-shock protein	branched chain alpha-keto acid	ucilyulogonasc El-alpha	branched chain alpha-keto acid dehydrogenase E1-beta	putative	ComE	putative	Hpr protein	enzyme I (ptsI)	f831; This 831 aa orf is 46 pct identical (11	gaps) to 709 residues of an approx. 712 aa	protein PT1A ECOLI SW: P32670	ORF107	putative	dnaZX-like ORF put. DNA polymerase III
End	39161	40715	41094	43066	43785	44753	45372		45701		47569	48040	50133	51335	53319	53746	56453	57266		58526	58565	59924	62151	62470	63733	64186			64318	64673	65301
Begin	39418	39366	43076	43800	44828	45340	45752	·	46996		47961	48960	51452	52606	53684	54195	55278	56493		57297	59851	61495	61324	62132	62474	63881			64611	65485	62669
ORF	ORF34	ORF35	ORF36	ORF37	ORF38	ORF39	ORF40		ORF41		ORF42	ORF43	ORF44	ORF45	ORF46	ORF47	ORF48	ORF49		ORF50	ORF51	ORF52	ORF53	ORF54	ORF55	ORF56			ORF57	ORF58	ORF59

ORF	Begin	End	Homology	a ·	Species	Score	~ %
ORF60	66244	67281	putative				
ORF61	67265	66929	putative				
ORF62	67703	68539	putative				T
ORF63	68805	70736	putative				
ORF64	69172	68831	putative				
ORF65	70642	71142	putative	7			
ORF66	71325	72029	putative				
ORF67	72060	73637	putative				1
ORF68	74061	76175	YqfF	D84432	Bacillus subtilis	542	4
ORF69	78351	77680	porphobilinogen deaminase	D28503	Clostridium josui	262	42
ORF70	79356	78355	sms protein	D90914	Synechocystis sp.	736	22
ORF71	79983	79693	ribonuclease III (mc)	AE000579	Helicobacter pylori	88	33
ORF72	80441	79938	ORF3	D64116	Bacillus subtilis	268	4
ORF73	80475	69608	putative				
ORF74	81296	83080	hypothetical protein	Y14079	Bacillus subtilis	893	38
OPE75	83291	83932	manganese superoxide dismutase	X77021	Caenorhabditis elegans	622	28
ORF76	84005	84769	acetyl-CoA carboxylase beta subunit (accD)	AE000604	Helicobacter pylori	602	50
00000	94075	DEC28	deoxvirridinetrinhosphatase (dut)	U32776	Haemophilus influenzae	110	41
ORF78	85123	85425	deoxyuridine 5'-triphosphate	AE000596	Helicobacter pylori	265	89
) i			nucleotidohydrolase (dut)				
ORF79	85397	85903	ORF2	L26916	Pseudomonas aeruginosa	173	34
ORF80	85909	86583	enzyme IIANtr	U18997	Escherichia coli	170	42
ORF81	86626	88065	putative				
ORF82	89257	91026	putative				
ORF83	91291	93030	putative				
ORF84	93295	94086	putative				T
ORF85	95285	94707	putative				T
ORF86	95667	96557	putative				
ORF87	96317	97456	putative				
ORF88	98435	89626	putative				
ORF89	99460	98426	putative			1,0	1
ORF90	100144	101325	elongation factor Tu	L22216	Chlamydia trachomatis	191/	3

ORF	Begin	End	Homology	ID.	Species	Score	%1
ORF91	101457	101720	putative				
ORF92	101704	102273	transcription factor	L10348	Thermus aquaticus thermophilus	376	49
ORF93	102356	102805	ribosomal protein L11	D13303	Bacillus subtilis	458	63
ORF94	102835	103530	ribosomal protein L1	Z11839	Thermotoga maritima	642	51
ORF95	103549	104058	ribosomal protein L10	M89911	Streptomyces antibioticus	82	31
ORF96	104096	104491	rpl12 (AA 1-128)	X53178	Synechocystis PCC6803	325	47
ORF97	104601	108386	DNA-directed RNA polymerase beta chain	X64172	Staphylococcus aureus	2740	52
ORF98	108401	112054	Joda	V00339	Escherichia coli	2947	54
ORF99	112033	112590	acetylornithine deacetylase (EC 5.1.1.16)	M22622	Leptospira biflexa	514	29
ORF100	112672	113682	transaldolase	L19437	Homo sapiens	755	49
ORF101	113726	114121	putative				•
ORF102	114711	114136	putative				
ORF103	115267	115755	putative				
ORF104	115911	116543	putative				
ORF105	116736	118055	ATPase alpha-subunit	X63855	Thermus aquaticus thermophilus	934	20
ORF106	117968	118522	adenosine triphosphatase A subunit	D50528	Acetabularia acetabulum	147	32
ORF107	118530	119843	V-ATPase B subunit	U96487	Desulfurococcus sp. SY	751	48
ORF108	119816	120457	putative		,		
ORF109	120451	122430	v-type Na-ATPase	X76913	Enterococcus hirae	264	35
ORF110	122504	122950	ATP synthase, subunit K	U67478	Methanococcus jannaschii	184	31
ORF111	123528	126347	valyl-tRNA synthetase	X05891	Escherichia coli	1679	49
ORF112	126332	129166	protein kinase-like protein	U19250	Streptomyces coelicolor	427	37
ORF113	134690	129213	UvrA	D49911	Thermus thermophilus	3107	41
ORF114	134925	136382	pyruvate kinase	U83196	Chlamydia trachomatis	1748	7.1
ORF115	137870	136482	HtrB protein	X61000	Escherichia coli	147	38
ORF116	137899	138240	putative				
ORF117	138239	137928	putative				
ORF118	139558	138257	putative				
ORF119	140352	139516	YbbP	AB002150	Bacillus subtilis	231	46
ORF120	140498	141841	cyanide insensitive terminal oxidase	Y10528	Pseudomonas aeruginosa	538	20
ORF121	141855	142658	cyanide insensitive terminal oxidase	Y10528	Pseudomonas aeruginosa	310	40
ORF122	144258	143050	putative				
ORF123	145258	144494	putative				

Score 1%	836 47			2361 52	┼	╁	201 43	├																				
5	8			23	22		20	8			14	14	14 79 54	14 79 79 54	54	144 797 545 319 427	38 42	144 797 545 545 427 427 385	38 38 85 86 86 86 86 86 86 86 86 86 86 86 86 86	144 797 545 319 427 427 432 432	144 797 545 319 427 385 861 432	24 14 14 14 14 14 14 14 14 14 14 14 14 14	24 14 14 14 14 14 14 14 14 14 14 14 14 14	24 24 31 31 31 42 43 43	29 29 29 29 29	144 797 545 319 427 427 432 432	29 88 86 86 86 86 86 86 86 86 86 86 86 86	14 14 14 15 16 17 18
Species	Bacillus subtilis			Homo sapiens	Synechocystis sp.		Bacillus subtilis	Coxiella burnetii			Bacillus subtilis	Bacillus subtilis Thermus aquaticus	Bacillus subtilis Thermus aquaticus Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp.	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp.	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp.	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp.	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp. Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp. Haemophilus influenzae Schizosaccharomyces pombe Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp. Haemophilus influenzae Schizosaccharomyces pombe Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp. Haemophilus influenzae Schizosaccharomyces pombe Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp. Haemophilus influenzae Schizosaccharomyces pombe Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillun sp. Haemophilus influenzae Schizosaccharomyces pombe Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp. Haemophilus influenzae Schizosaccharomyces pombe Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp. Haemophilus influenzae Kaemophilus influenzae Achizosaccharomyces pombe	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp. Haemophilus influenzae Schizosaccharomyces pombe Haemophilus influenzae	Bacillus subtilis Thermus aquaticus Haemophilus influenzae Synechocystis sp. Magnetospirillum sp. Haemophilus influenzae Achizosaccharomyces pombe Haemophilus influenzae
_	297025			U04953	D90904		AF008220	6968LX	•		Z49782	Z49782 U82109	Z49782 U82109 U32705	Z49782 U82109 U32705	Z49782 U82109 U32705 X72627	Z49782 U82109 U32705 X72627 D32253	Z49782 U82109 U32705 X72627 D32253 U32848	Z49782 U82109 U32705 X72627 D32253 U32848	Z49782 U82109 U32705 X72627 D32253 U32848	Z49782 U82109 U32705 X72627 D32253 U32848 AB004537 U32811	Z49782 U82109 U32705 X72627 D32253 U32848 AB004537 U32811	Z49782 U82109 U32705 X72627 D32253 U32848 AB004537 U32811	Z49782 U82109 U32705 X72627 D32253 U32848 AB004537 U32811	Z49782 U82109 U32705 X72627 D32253 U32848 AB004537 U32811	Z49782 U82109 U32705 X72627 D32253 U32848 AB004537 U32811	Z49782 U82109 U32705 X72627 D32253 U32848 AB004537 U32811	Z49782 U82109 U32705 X72627 D32253 U32848 AB004537 U32811	Z49782 U82109 U32705 X72627 D32253 U32848 AB004537 U32811
Homology	product similar to E. coli PhoH protein	putative	putative	isoleucyl-tRNA synthetase	leader peptidase I	putative	YtiA	orf 361; ranslated orf similarity to SW: RFI SALTY peptide chain release factor 1	of Salmonella tvnhimurium		product similar to E.coli PRFA2 protein	product similar to E.coli PRFA2 protein Ffh	Product similar to E.coli PRFA2 protein Fin tRNA (guanine-N1)-methyltransferase (tmD)	product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative	product similar to E.coli PRFA2 protein Fin tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19	Product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII.	Product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk)	Product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative	product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase	Product similar to E.coli PRFA2 protein Ffh (RNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase exodeoxyribonuclease V (recD)	product similar to E.coli PRFA2 protein Ffh (RNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase exodeoxyribonuclease V (recD) putative	product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase exodeoxyribonuclease V (recD) putative putative	product similar to E.coli PRFA2 protein Ffh (RNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase exodeoxyribonuclease V (recD) putative putative putative	product similar to E.coli PRFA2 protein Ffh (RNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase exodeoxyribonuclease V (recD) putative putative putative putative putative	product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase exodeoxyribonuclease V (recD) putative	product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase exodeoxyribonuclease V (recD) putative	product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII . 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase exodeoxyribonuclease V (recD) putative	product similar to E.coli PRFA2 protein Ffh tRNA (guanine-NI)-methyltransferase (trmD) putative ribosomal protein L19 putative protein highly homologous to E. coli RNase HII. 5'guanylate kinase (gmk) putative methionyl-tRNA synthetase exodeoxyribonuclease V (recD) putative
							155467 Y	156779 or R		10	157635 pr																	
	145454	147318	148261	149029	154108	155135	155141	155703			156748	156748 157653	156748 157653 159363	156748 157653 159363 159880	156748 157653 159363 159880 160477	156748 157653 159363 159880 160477	156748 157653 159363 159880 160477 160898	156748 157653 159363 159880 160477 160898 161527	156748 157653 159363 159880 160477 160898 161527 161527 162144	156748 157653 159363 159880 160477 160898 161527 162144 162431	156748 157653 159363 159880 160477 160898 161527 162144 162437 165431	156748 159363 159363 159380 160477 160898 161527 16244 162437 165451 166349	156748 157653 159363 159380 160477 160898 161527 162144 162437 165451 166349 166949	156748 157653 159363 159363 160477 160477 161527 162144 16244 162437 165451 166349 166349 166949	156748 157653 159363 159363 160477 160898 161527 16244 162437 165451 166949 166949 169416 170857	156748 157653 159363 159363 160477 160898 161527 162437 162437 162437 165451 166949 166949 166949 170857 172652	156748 159363 159363 159363 160477 160898 161527 162437 162437 166349 166349 166349 166349 170857 172652 174626	156748 157653 159363 159363 159880 160477 160898 161527 162437 165349 166349 166349 166349 166349 170857 172652 174626 174626
Ž O	ORF124	ORF125	ORF126	ORF127	ORF128	ORF129	ORF130	ORF131			ORF132	ORF132 ORF133	ORF132 ORF133 ORF134	ORF132 ORF133 ORF134 ORF135	ORF133 ORF133 ORF134 ORF135 ORF135	ORF132 ORF133 ORF134 ORF135 ORF135 ORF136	ORF132 ORF133 ORF134 ORF135 ORF136 ORF137	ORF132 ORF133 ORF134 ORF135 ORF136 ORF136 ORF137 ORF138	ORF132 ORF133 ORF134 ORF135 ORF136 ORF136 ORF137 ORF138 ORF139	ORF132 ORF133 ORF134 ORF135 ORF136 ORF136 ORF137 ORF138 ORF139 ORF141	ORF132 ORF133 ORF134 ORF135 ORF136 ORF136 ORF138 ORF138 ORF139 ORF140	ORF132 ORF133 ORF134 ORF135 ORF136 ORF137 ORF139 ORF140 ORF141 ORF141	ORF132 ORF133 ORF134 ORF135 ORF136 ORF136 ORF137 ORF139 ORF140 ORF141 ORF141	ORF132 ORF133 ORF134 ORF135 ORF136 ORF136 ORF137 ORF140 ORF141 ORF142 ORF144	ORF132 ORF133 ORF134 ORF135 ORF136 ORF136 ORF137 ORF140 ORF141 ORF142 ORF144 ORF144 ORF144 ORF144	ORF132 ORF133 ORF134 ORF135 ORF136 ORF136 ORF139 ORF141 ORF144 ORF144 ORF144 ORF144 ORF144 ORF144	ORF132 ORF133 ORF134 ORF135 ORF136 ORF137 ORF141 ORF142 ORF144 ORF144 ORF145 ORF145	ORF132 ORF133 ORF134 ORF135 ORF136 ORF139 ORF140 ORF141 ORF144 ORF144 ORF145 ORF145 ORF145 ORF145

	Begin	End	Homology	a	Species	Score	<u>%</u>
	177708	176938	orf 3'of chaperonin homolog hypB [Chlamydia psittaci, pigeon strain P-1041, Peptide Partial, 98 aal	S40172	Chlamydia psittaci	376	74
-	177128	177376	putative				
	179472	177841	putative	M69217	Chlamydia pneumoniae	2678	8
	179822	179517	putative	M69217	Chlamydia pneumoniae	498	66
	181793	179943	Pz-peptidase	D88209	Bacillus licheniformis	1088	38
	182628	181876	o247; This 247 as orf is 51 pct identical (0 gaps) to 117 residues of an approx. 160 as	AE000174	Escherichia coli	401	42
,			protein YPH7 CHRVI SW: P45371				-
	184420	183074	glutamate-1-semialdehyde 2,1-	X53696	Escherichia coli	823	41
	184988	184467	ORF o211	U28377	Escherichia coli	87	54
	185483	185112	hypothetical protein	D90906	Synechocystis sp.	91	33
	185902	185483	ribose 5-phosphate isomerase	U28377	Escherichia coli	111	41
ORF161	186174	185839	ribose 5-phosphate isomerase A	U32729	Haemophilus influenzae	190	46
	187720	186587	lor in 2/202/ hypothetical	D83026	Bacillus subtilis	536	42
	188318	190933	ATP-dependent protease binding subunit	M29364	Escherichia coli	2010	53
	191090	191635	putative				
	191547	192743	putative				T
ORF166	192969	193469	putative				
-	194044	193610	putative				
ORF168	194196	195809	unknown	Z84395	Mycobacterium tuberculosis	242	52
	196088	198073	DNA ligase (EC 6.5.1.2)	M24278	Escherichia coli	1317	46
	198132	199454	putative				
	199351	202818	putative				
	204552	202999	PcpB	U60175	Sphingomonas chlorophenolica	08	41
	205648	204692	putative				
	205807	207327	leucine tRNA synthetase	AF008220	Bacillus subtilis	1595	57
ORF175	207182	207775	leucyl-tRNA synthetase	X06331	Escherichia coli	363	51
ORF176	207779	208267	transfer RNA-Leu synthetase	M88581	Bacillus subtilis	285	43
	208267	209577	KDO transferase	Z31593	Chlamydia pneumoniae	2262	8

ORF	Begin	End	Homology	a .	Species	Score	%I
ORF178	211807	211271	KDO-transferase	X80061	Chlamydia psittaci	105	38
ORF179	212188	211844	putative	-			
ORF180	214079	212448	pyrophosphate-dependent	Z32850	Ricinus communis	1003	45
ORF181	214907	214083	CinI	U44893	Butyrivibrio fibrisolvens	111	41
ORF182	216154	215429	putative				
ORF183	216115	216678	putative				
ORF184	216728	217282	putative				
ORF185	217267	217866	putative				
ORF186	218593	218261	putative				
ORF187	219821	218994	putative				
ORF188	221382	220309	putative				
ORF189	222719	221433	GMP synthetase	M10101	Escherichia coli	1151	48
ORF190	223521	222724	IMP dehydrogenase	X66859	Acinetobacter calcoaceticus	778	58
ORF191	224499	225008	putative				
ORF192	225140	225559	putative				
ORF193	225555	226802	putative				
ORF194	227800	226892	putative				
ORF195	228335	228072	putative				
ORF196	229251	228643	putative				
ORF197	230983	229622	YqhX	D84432	Bacillus subtilis	1386	56
ORF198	231483	230983	acetyl-CoA carboxylase biotin carboxyl	U38804	Porphyra purpurea	199	52
			carrier protein				T
ORF199	232063	231509	elongation factor P	D64001	Synechocystis sp.	282	32
ORF200	232739	232053	pentose-5-phosphate-3-epimerase	D90911	Synechocystis sp.	463	43
ORF201	233166	234356	putative				
ORF202	233518	233165	putative				
ORF203	234536	235186	ORF2	L35036	Chlamydia psittaci	570	9
ORF204	235379	236689	putative				
ORF205	236680	237618	putative				
ORF206	237521	238345	putative				
ORF207	238281	238973	putative				
ORF208	238871	240115	putative				

ORF	Begin	End	Homology	a	Species	Score	%I
ORF209	240191	241564	putative				
ORF210	242281	241604	YqiZ	D84432	Bacillus subtilis	379	39
ORF211	242933	242274	f222; This 222 ag orf is 48 pct identical (0	AE000284	Escherichia coli	382	45
•			gaps) to 208 residues of an approx. 232 aa				
-	7 1 2 1 2	2000	protein YCKA BACSU SW: P42399	000001			Ţ
ORF212	243416	242976	arginine repressor protein (argR)	U32800	Haemophilus influenzae	229	46
ORF213	243500	244531	sialoglycoprotease	U15958	Pasteurella haemolytica	595	53
ORF214	244480	246021	oligopeptide permease homolog AII	AF000366	Borrelia burgdorferi	457	34
ORF215	246330	247811	OppAIV	AF000948	Borrelia burgdorferi	453	35
ORF216	247831	249174	OppA gene product	X56347	Bacillus subtilis	255	37
ORF217	249437	251038	dciAE	82995X	Bacillus subtilis	469	37
ORF218	251325	252212	OppB gene product	X56347	Bacillus subtilis	652	42
ORF219	253156	254007	oligopeptidepermease	X89237	Streptococcus pyogenes	574	48
ORF220	253974	254852	ATP binding protein	L18760	Lactococcus lactis	433	9
ORF221	255258	256094	KDO-transferase	X80061	Chlamydia psittaci	901	46
ORF222	256640	257455	putative				
ORF223	257502	258239	2-OXOGLUTARAT	A47930	Spinacia oleracea	989	52
ORF224	257869	257501	putative				
ORF225	259248	260897	pyrophosphate-fructose 6-phosphate 1-	M55191	Solanun tuberosum	1055	44
			phosphotransferase beta-subunit				
ORF226	262753	261788	putative				
ORF227	263059	262757	putative				
ORF228	264375	263182	putative				
ORF229	265985	264747	putative				
ORF230	266637	266059	putative				
ORF231	267338	266538	putative				
ORF232	267922	267473	putative				
ORF233	269647	270771	tRNA guanine transglycosylase	L33777	Zymomonas mobilis	628	4
ORF234	77777	273145	ORF 4	D00624	Bacteriophage chp1	100	41
ORF235	273253	273636	putative				
ORF236	273705	273977	putative				
ORF237	276016	275717	putative				
ORF238	276439	276020	putative		+		

ORF	Begin	End	Homology	a	Species	Score	%I
ORF239	276792	277253	putative				
ORF240	277318	277599	putative				
ORF241.	278578	277877	putative				
ORF242	279258	278554	FbpC	U33937	Neisseria gonorrhoeae	312	39
ORF243	280435	279533	putative				
ORF244	281547	280849	putative				
ORF245	281696	282325	CMP-2-keto-3-deoxyoctulosonic acid	U15192	Chlamydia trachomatis	637	63
			synthetase				
ORF246	282459	284069	CTP synthetase	U15192	Chlamydia trachomatis	2000	89
ORF247	284056	284517	ORF3	U15192	Chlamydia trachomatis	453	65
ORF248	284606	285775	glucose 6-phosphate dehydrogenase	U83195	Chlamydia trachomatis	1263	77
ORF249	285592	285987	glucose 6-phosphate dehydrogenase	U83195	Chlamydia trachomatis	519	79
ORF250	286179	286976	glucose-6-phosphate dehydrogenase	D88189	Actinobacillus	216	40
		*	isozyme		actinomycetemcomitans		
ORF251	287583	287002	putative				
ORF252	287951	287451	putative				
ORF253	288499	288816	putative				
ORF254	289674	288505	putative		-		
ORF255	288839	289213	putative				
ORF256	289970	290254	putative				
ORF257	291931	292803	gamma-D-glutamyl-L-diamino acid	X64809	Bacillus sphaericus	95	39
ORF258	293258	292755	ScoS9	U43429	Streptomyces coelicolor	233	45
ORF259	293718	293272	ribosomal protein L13 (rpL13)	U32823	Haemophilus influenzae	364	47
ORF260	294630	293953	Qlutamine transport ATP-binding protein Q	U67524	Methanococcus jannaschii	387	46
ORF261	296153	294636	putative				
ORF262	294817	295068	putative		٠		
ORF263	296354	297862	conserved hypothetical protein	AE000586	Helicobacter pylori	641	46
ORF264	298415	297879	putative				
ORF265	298777	298253	putative				
ORF266	299572	298781	putative	4			·
ORF267	300487	299633	putative				
ORF268	301586	300702	putative				

ORF	Begin	End	Homology	a .	Species	Score	%I
ORF269	302440	301571	putative				
ORF270	302838	302437	putative				
JRF271	303335	302745	putative				
ORF272	304394	303852	putative				
ORF273	304606	305223	f311; This 311 as orf is 22 pct identical (13	AE000232	Escherichia coli	250	3%
			gaps) to 186 residues of an approx. 488 aa				
	-		protein YACA_BACSU SW: P37563; pyul				
			of D21139				
ORF274	305394	306236	survival protein surE	U81296	Sinorhizobium meliloti	156	42
ORF275	306501	307439	YafU	D84432	Bacillus subtilis	547	42
ORF276	308033	307458	3-octaprenyl-4-hydroxybenzoate carboxy-	U61168	Bacillus firmus	403	42
			lyase				1
ORF277	308924	308037	4-hydroxybenzoate octaprenyltransferase	U61168	Bacillus firmus	152	€
ORF278	309485	310180	putative				
ORF279	310426	311214	putative			1	T
ORF280	311597	311253	putative				
ORF281	312772	311780	putative				
)RF282	313425	312772	putative				
ORF283	313646	313377	putative				1
ORF284	313937	314665	lysophospholipase homolog	AF006678	Schistosoma mansoni	141	4
ORF285	315576	314755	dnaZX	X17014	Bacillus subtilis	154	5
ORF286	316157	315531	unknown	D26185	Bacillus subtilis	284	33
ORF287	318657	316156	DNA gyrase	L47978	Aeromonas salmonicida	1785	84
ORF288	321042	318676	DNA gyrase subunit B	U35453	Clostridium acetobutylicum	1838	29
ORF289	321445	321098	putative				
ORF290	322309	321710	putative				
ORF291	323190	322366	outer membrane protein	AE000654	Helicobacter pylori	376	43
ORF292	323843	323181	hypothetical	U70214	Escherichia coli	356	37
JRF293	324878	323856	ATP-binding protein (abc)	U32744	Haemophilus influenzae	545	44
ORF294	325340	326410	f374; This 374 aa orf is 30 pct identical (9	AE000299	Escherichia coli	1194	62
			gaps) to 102 residues of an approx. 512 aa				
DETOCE	126432	327026	Voc A	AF000246	Escherichia coli	479	33
OKF 295	220433	26/020	Nas n	,			

Begin	End	Homology	a	Species	Score	%I
	327839	putative				
329360	328857	putative				
330907	329357	putative				
332455	330956	MgtE	U18744	Bacillus firmus	203	36
334536	332395	putative			-	
336091	334877	putative				
336103	337302	putative				
338129	338830	putative				
338965	339501	putative				
339508	340143	putative				
340247	342967	putative				
343385	343810	cAMP-dependent protein kinase type I	U75932	Rattus norvegicus	102	37
		regulatory subunit				
344171	343935	acyl carrier protein (acpP)	AE000570	Helicobacter pylori	198	55
345082	344330	3-ketoacyl-ACP reductase	U39441	Vibrio harveyi	869	48
346005	345082	malonyl-CoA:Acyl carrier protein	U59433	Bacillus subtilis	538	45
		transacylase				
346784	346437	beta-ketoacyl-acyl carrier protein synthase III (fabH)	AE000540	Helicobacter pylori	273	S2
347029	346715	beta-ketoacyl-acyl carrier protein synthase	M77744	Escherichia coli	265	63
347034	347723	recombination protein	D90916	Synechocystis sp.	363	42
348075	350459	putative				
350598	351071	putative	,			
351075	352175	rifampicin resistance protein	L22690	Rickettsia rickettsii	495	46
353291	352230	putative				
353442	354467	pyruvate dehydrogenase E1 component, alpha subunit	D90915	Synechocystis sp.	571	4
354451	354933	pyruvate dehydrogenase E1 beta subunit	U09137	Arabidopsis thaliana	495	59
355000	355449	pyruvate dehydrogenase El component, heta subunit	U38804	Porphyra purpurea	336	47
355448	356743	F23B12.5	Z77659	Caenorhabditis elegans	759	46
355953	355642	putative				

	T	_											7	10						_	1	-1		_	_	- 1	 7		- 1		
1%	57			46	4			45	9	4	87	87	61	39	34	47	39	53		29	37	47				38	55	38	2		
Score	2193			375	394			160	975	1209	995	092	2173	333	192	358	395	507		480	538	1302				302	175	565	187		
Species	Homo sapiens	The state of the s		Staphylococcus aureus	Haemophilus influenzae			Escherichia coli	Arabidopsis thaliana	Haemophilus influenzae	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Escherichia coli	Bacillus subtilis	Synechocystis sp.	Escherichia coli	Escherichia coli		Haemophilus influenzae	Yersinia enterocolitica	Yersinia enterocolitica				Clostridium butyricum	Haemophilus influenzae	Synechocystis sp.	Synechocystis sp.		
A.	U47025			D89066	U32781			M76470	AC002329	U32801	U74759	U74759	U74759	X00513	Z18631	D90917	AE000113	AE000219		U32723	U08019	X67771				L37874	U32776	D90901	D64002		
Homology	glycogen phosphorylase B	putative	putative	DnaA	hypothetical	putative	putative	jdþ	NADPH thioredoxin reductase	ribosomal protein S1 (rpS1)	NusA	NusA		initiation factor IF2-beta (infB; gtg start	ORF6 gene product	tRNA pseudouridine 55 synthase	hypothetical 34.6 kD protein in rpsT-ileS	hypothetical GTP-binding protein in pth 3'	region	hypothetical	YscU	lcrD gene product	putative	putative	putative	4-alpha-glucanotransferase	ribosomal protein L28 (rpL28)	hypothetical protein	comE ORF1	putative	putative
End	356827	359377	359908	359947	361362	363888	365290	365669	365667	369030	369808	370438	372647	373066	373442	374195	375099	375083		375634	377643	379773	380425	381000	381460	383037	383523	385304	386458	386514	387013
Begin	359310	359120	359525	361290	363785	364496	364832	365304	366599	367291	369134	369917	370365	372557	373020	373467	374176	375676		376173	376564	377956	379781	380281	381008	381460	383257	383553	385397	387242	388764
ORF	ORF323	ORF324	ORF325	ORF326	ORF327	ORF328	ORF329	ORF330	ORF331	ORF332	ORF333	ORF334	ORF335	ORF336	ORF337	ORF338	ORF339	ORF340		ORF341	ORF342	ORF343	ORF344	ORF345	ORF346	ORF347	ORF348	ORF349	ORF350	ORF351	ORF352

ORF	Begin	End	Homology	a ·	Species	Score	%I
			of the state of the fact that the decommend	D64000	Cynochomistic en	588	53
ORF353	390120	390932	methylenetetranydrololate denydrogenase	000000	Dynechocysis op.	106	30
ORF354	390919	391818	to YOJL_ECOLI SW: P33944 (122 aa) and	AE000310	Escherichia coli	190	6
			aa 152-351 are 100 pct identical to				
ORF355	392379	391885	small protein	D90914	Synechocystis sp.	387	46
ORF356	392582	392986	putative				T
ORF357	392776	393684	putative			- 6	;
ORF358	394151	394804	RecF protein	D90907	Synechocystis sp.	737	42
ORF359	394928	395308	putative				
ORF360	395259	395990	putative			, , ,	,
ORF361	397815	395953	hypothetical	U32773	Haemophilus influenzae	391	श्रीह
ORF362	398850	397831	H, influenzae predicted coding region	U32763	Haemophilus influenzae	280	39
00000	400005	300000	histive				
ORF364	401245	400073	YtgC	AF008220	Bacillus subtilis	244	30
ORF365	401474	401136	putative				
ORF366	402199	401423	unknown	U52850	Erysipelothrix rhusiopathiae	534	94
ORF367	403193	402186	putative				
ORF368	403650	404165	putative			000,	;
ORF369	404343	405914	adenine nucleotide translocase	Z49227	Arabidopsis thaliana	1280	55
ORF370	405984	407327	putative				
ORF371	407712	408806	putative				
ORF372	410439	409075	putative				
ORF373	411826	410954	putative			200	1
ORF374	412482	414302	lepA gene product	X91655	Bacillus subtilis	1827	59
ORF375	415402	414407	6-phosphogluconate dehydrogenase,	U32737	Haemophilus influenzae	687	51
ORF376	415848	415237	6-phosphogluconate dehydrogenase, 6PGD	S67873	Ceratitis capitata	695	42
	<u>}</u>		[Ceratitis capitata=medflies, Peptide, 481				
ORF377	417131	415866	tyrosyi-tRNA synthetase (tyrS)	J01719	Escherichia coli	821	45
ORF378	417258	417566	putative				

ORF	Begin	End	Homology	a	Species	Score	%I
ORF379	418326	417454	whiG-Stv gene product	60L89X	Streptoverticillium griseocarneum	464	41
ORF380	420057	418426	FLHA gene product	X63698	Bacillus subtilis	455	49
ORF381	420448	420720	ferredoxin IV	M59855	Rhodobacter capsulatus	174	8
ORF382	420980	421552	putative				T
ORF383	421556	422029	putative		,		
ORF384	422461	422925	putative				$ \top $
ORF385	423562	424320	putative	*			
ORF386	424250	424591	putative				T
ORF387	424830	426047	putative				1
ORF388	426240	427397	putative				!
ORF389	428841	430703	GcpE	D90908	Synechocystis sp.	877	47
ORF390	430694	431446	Нӈ҅ <mark>Ѵ</mark>	U50134	Escherichia coli	136	35
ORF391	431597	432100	putative				
ORF392	432165	432779	putative				-
ORF393	433272	432832	dihydrolipoamide succinyltransferase	U32839	Haemophilus influenzae	475	40
			(sucB)				ŀ
ORF394	433925	433227	dihydrolipoamide succinyltransferase	U32839	Haemophilus influenzae	332	45
			(sucB)	1141700	Dl. o. do be a store same of a store	1530	15
ORF395	436678	433934	alpha-ketoglutarate dehydrogenase	041/62	Knoaobacier capsulatus	UCC!	1
ORF396	437176	438357	oxygen-independent coproporphyrinogen III oxidase (hemN)	AE000628	Helicobacter pylori	442	42
ORF397	440317	438518	putative				T
ORF398	440001	440345	putative	-		,	1:
ORF399	441233	440517	ORF f286	U18997	Escherichia coli	168	45
ORF400	440719	441012	putative				T
ORF401	442192	441230	putative				
ORF402	442888	442343	putative				
ORF403	442371	442961	putative				
ORF404	443578	443003	[karp] gene products	M86605	Chlamydia trachomatis	505	28
ORF405	444500	443526	aminopeptidase	D17450	Mycoplasma salivarium	273	39
ORF406	444842	444528	putative				1
ORF407	445009	444743	putative	L39923	Mycobacterium leprae	133	33

ORF408	Begin	End	Homology	a	Species	Score	? -
001100	445718	445182	putative			1201	3
OK1409	445807	447804	Sulp	U18908	Zea mays	130/	77
ORF410	448738	447803	putative			046	Ş
ORF411	449628	448618	RuvB protein	U38840	Thermotoga maritima	040	3 3
ORF412	450298	450867	deoxycytidine triphosphate deaminase (dcd)	AE000554	Helicobacter pylori	3/3	28
ORF413	450713	451207	putative			-	7
ORF414	451211	452452	hemolysin	D90914	Synechocystis sp.	227	200
ORF415	452448	453659	similar to [SwissProt Accession Number	D90888	Escherichia coli	96 	33
			P379081	0000	7 1	522	20
ORF416	454843	453725	NifS gene product	L348/9	Anabaena azoliae	271	36.
ORF417	455608	454865	hypothetical protein	D90908	Synechocystis sp.	2/1	જ
ORF418	456243	457007	putative				
ORF419	457016	457708	putative				,
OR E420	458368	457979	unknown	D26185	Bacillus subtilis	152	20
OP E421	459496	458372	mutY homolog	U63329	Homo sapiens	466	46
OR F422	459493	460194	hypothetical protein	D90914	Synechocystis sp.	86	38
ORF423	461446	460355	putative				
ORF424	462298	461450	putative			000,	,
ORF425	462444	463349	enoyl-ACP reductase	Y13861	Nicotiana tabacum	1008	6
ORF426	464241	463342	putative				
ORF427	464574	465065	putative				
ORF428	465129	465611	putative				
ORF429	465571	466317	putative			7,0	,
ORF430	466317	467093	H. pylori predicted coding region HP0152	AE000536	Helicobacter pylori	047	2
ORF431	466999	467502	putative			707	1
ORF432	469691	467715	unidentified transporter-ATP binding	Z82044	Bacillus subtilis	490	9
ORF433	470691	469660	acetyl-CoA carboxylase subunit	AF008220	Bacillus subtilis	/81	77
ORF434	472010	470709	putative				
ORF435	471545	471799	putative				
ORF436	472359	472045	putative				!
ORF437	473523	472732	orf1.	X75413	Escherichia coli	313	42
ORF438	474889	473441	murE gene product	Z15056	Bacillus subtilis	679	2
ORF439	477323	475365	penicillin-binding protein 2	X59630	Neisseria meningitidis	451	42

ORF	Begin	End	Homology	a ,	Species	Score	%1
000000	000000	117703	missing 08 kDs outer membrane protein	1172499	Chlamydia psittaci	739	94
OKF409	507718	510507	nutative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	1813	42
OR F471	508325	507912	putative				
ORF472	510660	513440	POMP90A precursor	U65942	Chlamydia psittaci	1830	46
ORF473	514965	513787	hypothetical	D83026	Bacillus subtilis	482	8
ORF474	517347	515419	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	1554	2
ORF475	517058	517363	putative]:
ORF476	517798	517277	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	222	4
ORF477	518200	517847	POMP91B precursor	U65943	Chlamydia psittaci	162	42
ORF478	518300	521146	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	1900	45
ORF479	521392	522948	POMP91A	U65942	Chlamydia psittaci	490	65
ORF480	523244	524809	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	507	35
ORF481	524379	524125	putative				
ORF482	524649	526238	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	696	4
ORF483	526265	527104	putative				-
ORF484	526947	526702	putative			-	1
OR F485	526975	528450	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	197	48
ORF486	528408	529199	putative outer membrane protein	U72499	Chlamydia psittaci	154	37
ORF487	530612	529542	putative				
ORF488	531656	530616	putative				T
ORF489	533974	532067	putative				$\overline{\ \ }$
ORF490	536432	534324	putative				
ORF491	537150	536707	putative				
ORF492	537928	537080	putative				
ORF493	538438	537932	putative				
ORF494	538737	538333	putative				
ORF495	539594	539127	putative				
ORF496	541215	539590	putative	-			
ORF497	542571	541282	putative				
ORF498	543014	542457	putative				
ORF499	543369	542962	putative				3
ORF500	543809	546628	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	506	£ (%
ORF501	546619	549525	POMP91A	U65942	Chlamydia psitiaci	971	7

ORF	Begin	End	Homology	a,	Species	Score	%I
ORF502	547293	546994	putative				
ORF503	549699	550523	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	96	32
ORF504	550490	551551	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	223	33
ORF505	551448	552623	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	139	46
ORF506	552652	555117	putative 98 kDa outer membrane protein	U72499	Chlamydia psittaci	487	48
ORF507	555029	555493	putative				
ORF508	558006	555673	putative				
ORF509	559694	558162	putative				
ORF510	558208	558573	putative				
ORF511	561692	559899	putative		-		
ORF512	561412	561708	putative				
ORF513	563942	561777	1,4-alpha-glucan branching enzyme	X73903	Streptomyces coelicolor	1743	45
ORF514	564969	563950	putative				
ORF515	566204	564936	YqeV	D84432	Bacillus subtilis	639	38
ORF516	567717	566302	putative GTPase required for high	U00005	Escherichia coli	989	41
			frequency lysogenization by bacteriophage		and a second		
			lambda				
ORF517	568526	567708	putative				
ORF518	569467	568742	putative				
ORF519	571065	569431	putative				
ORF520	571828	571118	arginine-binding periplasmic protein 1	AE000188	Escherichia coli	197	45
			precursor				
ORF521	572202	573308	putative		i.		
ORF522	573146	575056	putative				
ORF523	575023	575916	carboxysome formation protein	D90901	Synechocystis sp.	557	59
ORF524	577891	576497	putative				
ORF525	578914	578204	putative				
ORF526	579924	578857	putative				
ORF527	580187	579858	protein kinase C inhibitor	90606Q	Synechocystis sp.	260	49
ORF528	580017	580406	putative				
ORF529	581086	580187	Yer156cp	U18917	Saccharomyces cerevisiae	176	34
ORF530	581367	581828	putative				
ORF531	581678	582367	putative				

%I e				45				71	59			65				100	100		48	46	47			36	35			40		45	
Score				805				2125	324			096			99	2619	674		306	168	374			362	182			423		384	
Species				Synechocystis sp.				Chlamydia trachomatis	Chlamydia trachomatis			Chlamydia trachomatis			Chlamydia trachomatis	Chlamydia pneumoniae	Chlamydia pneumoniae		Escherichia coli	Shigella flexneri	Bacillus subtilis			Serpulina hyodysenteriae	Synechocystis sp.			Helicobacter pylori		Lactococcus lactis	
a .				D64004				L25105	L25105			U52216			M62819	M69227	M69227		U14003	D11024	D83026			X73141	D90908			AE000579		L14679	
Homology	putative	putative	putative	hypothetical protein	putative	putative	putative	aminoacyl-tRNA synthetase	has homology to putative heat shock	proteins of Bacillus subtilis and Clostridium	acetobutylicum; ORFA; putative	Possible negative regulator of CIRCE	element; Homologs in B. subtilis and	Clostridia spp. referred to as hrcA or orfA	grpE	DnaK protein homolog; 71,550 Da; putative	DnaK protein homolog; 71,550 Da; putative	putative	vacB gene product	ORF-2	homologous to DNA glycosylases;	hypothetical	putative	hemolysin	hypothetical protein	putative	putative	conserved hypothetical protein	putative	putative	putative
End	583428	583431	584950	586888	587907	588180	589301	592458	592903			593747			594298	595947	596309	597215	597957	598612	599204		599939	602072	602587	603272	604512	605853	606620	607281	607355
Begin	582361	584690	585237	585626	586846	589049	290500	590755	592526			592836			593747	594331	595905	596514	597184	597755	598602		599373	606009	602240	602637	603142	604627	062509	125909	609004
ORF	ORF532	ORF533	ORF534	ORF535	ORF536	ORF537	ORF538	ORF539	ORF540	•		ORF541			ORF542	ORF543	ORF544	ORF545	ORF546	ORFS47	ORF548		ORF549	ORF550	ORF551	ORF552	ORF553	ORF554	ORF555	ORF556	ORF557

aromonogy
putative
diaminopimelate epimerase
ATP-dependent Clp protease proteolytic
serine hydroxymethyltransferase
putative
putative
ORF 0328
branched chain alpha-keto acid
hypothetical
rRNA methylase
hypothetical protein (SP:P39587
riboflavin synthase alpha chain
1
signalpeptidase II
D-alanine permease (dagA)
POMP91A
purative
adhesion protein
GTP-binding protein
50S ribosomal protein L27
50S ribosomal subunit protein L2
hypothetical protein
assimilatory sulfite reductase
putative
ribosomal protein S10 (rpS10)

ORE580 645628 643676 translation elongation factor EF-G (flasA) AE000625 Helicobacter pylori ORE590 645783 ed5538 elongation factor G (AA 1-691) X16278 Thermus caquaticus thermophillus ORE591 ORE591 646269 645733 ribosomal protein S12 (AA 1-123) X16278 Thermus captainteus thermophillus ORE594 ORE592 646263 publish publish publish Chlamydia printer achomatis piliture of protein S1289 Chlamydia printer achomatis piliture of Chlamydia printer achomatis of S1395 G65020 Chlamydia printer achomatis politure of Chlamydia printer achomatis of S1395 G651289 G651289 G65240 Chlamydia printer achomatis politure of Chlamydia printer achomatis politure achomatic achin achomatic politure achomatic achin achomatic achina achomatic achina	ORF	Begin	End	Homology	<u>a</u>	Species	Score	%I
645783 elongation factor (G.A. 1-691) ALOCOLD 646269 645793 ribosomal protein S12 (AA 1-123) ALOCOLD 646269 645793 ribosomal protein S12 (AA 1-123) X52912 647848 647045 putative CATOLD ALOCOLD 647848 647045 putative CATOLD ALOCOLD 647848 647045 putative CATOLD ALOCOLD 651016 650320 ORF of pre gene (alt.) D00674 652256 651289 GRADA CrP X53511 6522740 654193 glutamyl-tRNA synthetase homolog U41759 655740 655189 GRADA CrP Axperimentally demonstrated; early U41759 655740 655166 early stage-specific transcription U41759 U41759 65508 65356 early stage-specific transcription U41759 CATOLD 65617 def0238 protein-export membrane protein SecD D64000 CATOLD 66213 def0328 protein-export membrane protein SecD D64000 CATOLD <td>ORES80</td> <td>8645454</td> <td>779779</td> <td>translation elongation factor BE G (fire A)</td> <td>A E000625</td> <td>Lolisohador milori</td> <td>1001</td> <td>oy.</td>	ORES80	8645454	779779	translation elongation factor BE G (fire A)	A E000625	Lolisohador milori	1001	oy.
646269 645793 ribosomal protein S7 Z11567 647848 640745 putative X52912 647848 640745 putative D00674 643939 650336 ORP of pre gene (alt.) D00674 651016 650420 hypothetical sulfur-rich protein U41759 652256 651289 60kDa CrP X53511 652395 651280 G0kDa CrP X53511 652340 651289 G0kDa CrP X53511 655740 654193 glutamyl-tRNA synthetase homolog U41759 655740 654193 glutamyl-tRNA synthetase homolog U41759 655186 655966 early stage-specific transcription L13598 655187 early stage-specific transcription U41759 65818 65596 protein-export membrane protein SecD D64000 66218 660248 protein-export membrane protein SecD D64000 665735 666248 hypothetical protein D64006 665736 667921 c298; This 298 as orf is 3	ORF590	645783	645538	elongation factor G (AA 1-691)	X16278	Thermys aguaticus thermophilus	170	S &
646751 646314 ribosomal protein S12 (AA 1-123) X52912 647848 647045 putative C47848 647045 putative 651016 650336 ORF of pro gene (alt.) D00674 A53511 651016 650420 hypothetical sulfur-rich protein U41759 653956 6511289 60kDa CrP X53511 655340 654193 glutamyl-tRNA synthetase homolog U41759 655740 654193 glutamyl-tRNA synthetase homolog U41759 655740 655066 early stage-specific transcription L13598 655740 655066 early stage-specific transcription L13598 655016 early stage-specific transcription L13598 665216 decentrally demonstrated; early U41759 665217 unknown recl recombination protein U41759 665218 fe60248 protein-export membrane protein SecD D64006 665215 fe60248 protein-export membrane protein SecD D64006 666216 fe66217 putative	ORF591	646269	645793	ribosomal protein S7	Z11567	Chlamvdia trachomatis	730	88
647848 647045 putative 648393 650336 ORF of pro gene (att.) D00674 651016 650420 hypothetical sulfur-rich protein U41759 653956 651289 60kDa CrP X53511 653395 653126 9kDa CrP X53511 655340 654193 glutamyl-tRNA synthetase homolog U41759 655740 654193 glutamyl-tRNA synthetase homolog U41759 655740 654193 glutamyl-tRNA synthetase homolog U41759 655740 657022 unknown U41759 U41759 66212 66224 protein-export membrane protein SecD D64000 U41759 664461 665157 putative D64006 U41759 66512 66694 hypothetical protein D64006 U66006 666998 667921 o298; This 298 as or fi is 33 pct identical (24 AE000238 Intention of Contract of Contrac	ORF592	646751	646314	ribosomal protein S12 (AA 1-123)	X52912	Cryptomonas phi	485	67
648393 650336 ORF of prc gene (alt.) D00674 651016 650420 hypothetical sulfur-rich protein U41759 652365 651289 60kDa CrP X53511 653395 653126 9kDa CrP X53511 655740 654193 glutamyl-tRNA synthetase homolog U41759 655740 65596 experimentally demonstrated, early U41759 658140 657022 unknown U41759 660216 658525 RecJ recombination protein U41759 666216 658525 RecJ recombination protein U41759 666216 658525 RecJ recombination protein U41759 666217 663157 putative D64000 666218 666246 hypothetical protein D64006 666219 666994 hypothetical protein D64066 666210 666998 667921 C298; This 298 as or is 33 pct identical (24 AE000238 AE00238 AE0	ORF593	647848	647045	putative				
651016 650420 hypothetical sulfur-rich protein U41759 652956 651289 60kDa CrP X53511 653395 653126 9kDa CrP X53511 655740 654193 glutamyl-tRNA synthetase homolog U41759 655740 655102 glutamyl-tRNA synthetase homolog U41759 658140 655022 unstroam U41759 660216 658253 RecJ recombination protein U41759 664461 663157 punative D64000 664461 663157 punative D64006 665212 666994 hypothetical protein D64006 665223 666994 hypothetical protein D64006 66522 666994 hypothetical protein D64006 66698 66790 G6699 AE000133 668154 67085 Cytidylate kinase Cytidylate kinase 668154 670853 UDP-N-acctylglucosamine enolpyruvyl U3278 67137 671424 putative D64066 <	ORF594	648393	650336	ORF of prc gene (alt.)	D00674	Escherichia coli	554	42
652956 651289 60kDa CrP X53511 653395 653126 9kDa CrP X53511 655740 654193 glutamyl-tRNA synthetase homolog U41759 655740 655126 early stage-specific transcription L13598 655740 655126 early stage-specific transcription L13598 655740 655022 unknown U41759 660216 658525 RecJ recombination protein U41759 660216 658525 RecJ recombination protein U41759 660217 putative D64000 L041759 660218 660248 protein-export membrane protein SecD D64000 666318 660248 putative D64006 666319 hypothetical protein D64006 L0500238 666312 666994 hypothetical protein D6406 666998 667921 6298; This 298 as orf is 33 pct identical (24 AE000133 L66850 666909 666909 hypothetical protein D6406 667909 668568 <	ORF595	651016	650420	hypothetical sulfur-rich protein	U41759	Chlamydia psittaci	301	50
653395 653126 9kDa CrP X53511 655740 654193 glutamyl-tRNA synthetase homolog U41759 655740 655193 early stage-specific transcription L13598 655722 unstream open reading frame (EUO) U41759 66214 657022 unknown U41759 66216 65825 RecJ recombination protein U41759 663173 660248 protein-export membrane protein U41759 664461 66612 D64000 U41759 665735 664635 putative D64000 U41759 666794 hypothetical protein D64006 D64006 D64006 666795 putative C298; This 298 as orf is 33 pct identical (24 AE000238 Inpotein) AE000193 Inpotein D64006 D64006 66699 66790 668568 cytidylate kinase C6100 C61006 C61000 C61000 C61000 C61000 <td>ORF596</td> <td>652956</td> <td>651289</td> <td>60kDa CrP</td> <td>X53511</td> <td>Chlamydia pneumoniae</td> <td>2951</td> <td>100</td>	ORF596	652956	651289	60kDa CrP	X53511	Chlamydia pneumoniae	2951	100
655740 654193 glutamyl-tRNA synthetase homolog U41759 656508 65508 early stage-specific transcription L13598 656508 655022 unknown U41759 660216 658225 RecJ recombination protein U41759 660216 658225 RecJ recombination protein U41759 660216 658225 RecJ recombination protein U41759 66323 660248 protein-export membrane protein SecD D64000 66515 butative D64006 C66212 666212 666994 hypothetical protein D64006 666212 666994 hypothetical protein D64006 666213 666294 hypothetical protein D64006 666316 667921 hypothetical protein D64006 666317 668268 cytidylate kinase C71424 669154 670853 JUP-N-acetylglucosamine enolpyruvyl U32788 669154 670853 putative C71424 671302 putative C71424	ORF597	653395	653126	9kDa CrP	X53511	Chlamydia pneumoniae	502	8
656508 655966 early stage-specific transcription L13598 experimentally demonstrated; early unstream open reading frame (EUO) U41759 660216 658525 RecJ recombination protein U41759 660216 658525 RecJ recombination protein U41759 660216 658525 RecJ recombination protein U41759 664461 663157 putative D64000 665735 664635 putative D64006 665736 66694 hypothetical protein D64006 665737 66699 667901 AE000133 666790 66699 hypothetical protein D64006 666790 668568 cytidylate kinase AE000193 66850 669154 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 669154 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative C72453 putative 672453 673001 putative D040406 673072 674721	ORF598	655740	654193	glutamyl-tRNA synthetase homolog	U41759	Chlamydia psittaci	2259	82
658140 657022 unknown U41759 660216 658525 RecJ recombination protein U41759 660216 658525 RecJ recombination protein U41759 660216 658525 RecJ recombination protein U41759 664461 660248 protein-export membrane protein SecD D64000 664461 663157 putative D64000 665735 664635 putative D64006 665736 66694 hypothetical protein D64006 66698 667921 2298; This 298 aa orf is 33 pct identical (24 AE000238 gaps) to 248 residues of an approx. 256 aa protein CDSA ECOLI SW; P06466 AE000193 667909 668568 cytidylate kinase AE000193 668502 669203 hypothetical protein D90915 66850 667085 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative AE000193 672453 673071 putative AE00015 673072 674721 putative 675518 6744	ORF599	80\$959	996559	early stage-specific transcription	L13598	Chlamydia psittaci	999	62
658140 657022 unknown U41759 660216 658525 RecJ recombination protein U41759 660216 658525 RecJ recombination protein U41759 663138 660248 protein-export membrane protein SecD D64000 664461 663157 putative D64000 665715 664635 putative D64006 66598 667921 o298; This 298 as orf is 33 pct identical (24 AE00238 66699 667921 o298; This 298 as orf is 33 pct identical (24 AE000238 668502 666994 hypothetical protein D64006 668503 protein CDSA ECOLI SW; P06466 AE000193 668504 669203 hypothetical protein D64006 668508 cytidylate kinase Cytidylate kinase D64006 669154 670893 arginyl-tRNA-synthetase D64006 67226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 67137 671424 putative D6406 673518 674549 G74256 Dutative </td <td></td> <td></td> <td></td> <td>experimentally demonstrated; early</td> <td></td> <td>•</td> <td></td> <td></td>				experimentally demonstrated; early		•		
658140 657022 unknown U41759 660216 658525 RecJ recombination protein U41759 663238 660248 protein-export membrane protein SecD D64000 664461 663157 putative D64006 665735 664635 putative D64006 666212 666994 hypothetical protein D64006 66698 667921 o298; This 298 aa orf is 33 pct identical (24 AE000238 66699 protein CDSA ECOLI SW; P06466 AE000193 66690 cytidylate kinase AE001 SW; P06466 66790 668568 cytidylate kinase AE000193 669154 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671256 670853 UDP-N-acetylglucosamine enolpyruvyl U3278 67137 671424 putative D64006 672453 67301 putative C74549 674549 67456 putative X59551				upstream open reading frame (EUO)				
660216 658525 RecJ recombination protein U41759 663238 660248 protein-export membrane protein SecD D64000 664461 663157 putative D64006 665735 664635 putative D64006 665736 666994 hypothetical protein D64006 666908 667921 6298; This 298 aa orf is 33 pct identical (24 AE000238 gaps) to 248 residues of an approx. 256 aa protein CDSA ECOLI SW; P06466 AE000193 667909 668568 cytidylate kinase AE000193 669154 670853 hypothetical protein D94015 669154 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative Dutative 672453 673001 putative AE00015 674549 674262 putative X59551 675518 675083 putative X59551	ORF600	658140	657022	unknown	U41759	Chlamydia psittaci	950	4
663238 660248 protein-export membrane protein SecD D64000 664461 663157 putative C64461 D64006 665735 664635 putative D64006 666212 666994 hypothetical protein D64006 666908 667921 o298; This 298 as orf is 33 pct identical (24 AE000238 gaps) to 248 residues of an approx. 256 as protein CDSA ECOLI SW; P06466 AE000193 667909 668568 cytidylate kinase AE000193 668502 669203 hypothetical protein D90915 668502 669203 hypothetical protein D090915 667226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative putative 673453 674721 putative C7455 673454 674726 ORF246 gene product X59551 675518 67589 putative X59551	ORF601	660216	658525	RecJ recombination protein	U41759	Chlamydia psittaci	807	73
664461 663157 putative 665735 664635 putative 666212 666994 hypothetical protein D64006 666998 667921 o298; This 298 aa orf is 33 pct identical (24 AE000238 gaps) to 248 residues of an approx. 256 aa protein CDSA ECOLI SW; P06466 AE000193 667909 668568 cytidylate kinase AE000193 668502 669203 hypothetical protein D90915 669154 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 672226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative Datative 672453 673001 putative X59551 673072 674721 putative X59551 67518 675489 putative X59551	ORF602	663238	660248	protein-export membrane protein SecD	D64000	Synechocystis sp.	413	4
665735 664635 putative 666212 666994 hypothetical protein D64006 666998 667921 o298; This 298 aa orf is 33 pct identical (24 AE000238 gaps) to 248 residues of an approx. 256 aa protein CDSA ECOLI SW; P06466 AE000193 667909 668568 cytidylate kinase AE000193 668502 669203 hypothetical protein D90915 669154 670893 arginyl-tRNA-synthetase D64006 672226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative D64006 672453 673001 putative C74549 674549 674262 putative X59551 675518 674599 putative X59551	ORF603	664461	663157	putative				
666212 666994 hypothetical protein D64006 666998 667921 o298; This 298 aa orf is 33 pct identical (24 AE000238 gaps) to 248 residues of an approx. 256 aa protein CDSA ECOLI SW; P06466 AE000193 667909 668568 cytidylate kinase AE000193 668502 669203 hypothetical protein D90915 669154 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative D64006 672453 673001 putative C73002 674549 674262 putative X59551 675518 675083 ORF246 gene product X59551	ORF604	665735	664635	putative				
666998 667921 0298; This 298 aa orf is 33 pct identical (24 AE000238 gaps) to 248 residues of an approx. 256 aa protein CDSA ECOLI SW; P06466 AE000193 667909 668568 cytidylate kinase AE000193 669154 669203 hypothetical protein D90915 669154 670893 arginyl-tRNA-synthetase D64006 672226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative C72453 673072 674721 putative C74549 674549 674262 putative C74546 gene product 675518 6756083 675499 putative	ORF605	666212	666994	hypothetical protein	D64006	Synechocystis sp.	538	58
667909 668568 cytidylate kinase AE000193 667909 668568 cytidylate kinase AE000193 668502 669203 hypothetical protein D90915 669154 670893 arginyl-tRNA-synthetase D64006 672226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative C72453 672453 673001 putative C74549 674549 674262 putative C74546 gene product 675518 675518 675499 putative	ORF606	866999	667921	o298; This 298 aa orf is 33 pct identical (24	AE000238	Escherichia coli	253	45
667909 668568 cytidylate kinase AE000193 668502 669203 hypothetical protein D90915 669154 670893 arginyl-tRNA-synthetase D64006 672226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative C72453 673072 674721 putative C74549 673518 674796 ORF246 gene product X59551 675518 6756083 675499 putative			1	gaps) to 248 residues of an approx. 256 aa				
667909 668568 cytidylate kinase AE000193 668502 669203 hypothetical protein D90915 669154 670893 arginyl-tRNA-synthetase D64006 672226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative C72453 673072 674721 putative C74549 673518 674796 ORF246 gene product X59551 675518 6756083 675499 putative				protein CDSA ECOLI SW; P06466				
668502 669203 hypothetical protein D90915 669154 670893 arginyl-tRNA-synthetase D64006 672226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative C72453 673072 674721 putative C7360 674549 674262 putative X59551 675518 675499 putative X59551	ORF607	606299	895899	cytidylate kinase	AE000193	Escherichia coli	400	48
669154 670893 arginyl-tRNA-synthetase D64006 672226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 401137 671424 putative 072453 672453 673001 putative 074549 674549 674262 putative 000000000 675518 674796 ORF246 gene product X59551 676083 675499 putative	ORF608	668502	669203	hypothetical protein	D90915	Synechocystis sp.	225	33
672226 670853 UDP-N-acetylglucosamine enolpyruvyl U32788 671137 671424 putative 672453 673001 putative 673072 674721 putative 673508 putative 674549 674262 putative 75518 674796 ORF246 gene product 675518 675599 putative 755551 7	ORF609	669154	670893	arginyl-tRNA-synthetase	D64006	Synechocystis sp.	1365	49
671137 671424 putative 672453 673001 putative 673072 674721 putative 674549 674262 putative 675518 674796 ORF246 gene product 676083 675499 putative	ORF610	672226	670853	UDP-N-acetylglucosamine enolpyruvyl	U32788	Haemophilus influenzae	642	40
671137 671424 putative 672453 673001 putative 673072 674721 putative 674549 674262 putative 675518 674796 ORF246 gene product X59551 676083 675499 putative				transferase (murZ)				
672453 673001 putative 673072 674721 putative 674549 674262 putative 675518 674796 ORF246 gene product X59551 676083 675499 putative	ORF611	671137	671424	putative				
673072 674721 putative 674549 674262 putative 675518 674796 ORF246 gene product X59551 676083 675499 putative	ORF612	672453	673001	putative				
674549 674262 putative 675518 674796 ORF246 gene product X59551 676083 675499 putative	ORF613	673072	674721	putative				Γ
675518 674796 ORF246 gene product X59551 676083 675499 putative	ORF614	674549	674262	putative				ĺ
676083 675499	ORF615	675518	674796	ORF246 gene product	X59551	Escherichia coli	520	43
	ORF616	676083	675499	putative				

Begin	End	Homology			
02772	790979	mitative		11.1	198
0,0000	676600	OBF3	D10279	Bacillus subtills	107
01//010	677015	nentide release factor 2	X99401	Bacillus firmus	174
0//04/	0,000	Will control of the c	Z49939	Saccharomyces cerevisiae	2/3
066219	6/879	unkinowii	D26185	Bacillus subtilis	263
679444	680097	unkmown	D64126	Bacillus subtilis	206
260089	680897	uwown	271707		
681637	680849	putative			
681409	682281	putative			
682453	682821	putative	1 20004	Minococcust ranthus	190
682763	683902	sensor protein	L39904	Myzococcus zumins	
684616	693669	putative			
685169	684534	putative			
685986	685117	putative		T. I. michia coli	820
686278	687288	NtrC/NifA-like protein regulator	706/10	Escherichia con	
687483	688151	putative			
688740	689501	putative			
690242	689622	putative	740000	Cool, orominos cerenisino	380
690470	691126	unknown	248000	Saccina onlyces colorisas	
009269	691497	putative	0.000.	TT Lilin influence	593
692674	695064	phenylalanyl-tRNA synthetase beta-subunit	032810	паеториния нушенгае	3
		(pheT)			
695049	696032	putative	D05103	Canachococousso	371
697964	696585	OppC-like protein	7777	Racillus subtilis	197
699803	698274	OppB gene product	1120000	Racillus subtilis	324
701926	88/669	AppA	02020	Therman amount	
703196	702567	putative			
704221	703208	putative	1 * 7 * 61.5	1. 1. J. James of alicent	2,66
704240	705289	ferrochelatase	X/341/	Arabiaopsis manana	128
706070	705300	histidine periplasmic binding protein P29	058045	Telling Languages	155
706841	706254	conserved hypothetical protein	AE000392	Heilcobaciel Pylori	
707596	706811	putative	057550	Solanum tuherosum	595
999802	707677	ADP-glucose pyrophosphorylase	000000	Arahidonsis thaliana	400
20000	700110	arrH-H gene product	7101/	The state of the s	

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Species	Escherichia coli		Streptococcus pneumoniae	Methanococcus jannaschii	Arabidopsis thaliana	Bacillus subtilis	Pseudomonas putida		Myxococcus xanthus	Hoomonhilus influenzae	Harmophins infinerace	naemopnius injuentue			Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Chlamydia trachomatis	Synochocystic sn
ar '	101673		J04479	U67512	Z49227	D26185	X62540		J05207	7170211	1122717	032/1/			U83198	L33834	L33834	L33834	L33834	L33834	L25077	M80325	M80325	M60652	M60652	M80325	M80325	M80325	M80325	M80325	700005
Homology	transcription termination factor	putative	DNA polymerase I	protease IV	adenine nucleotide translocase	replicative DNA helicase	homologous to E.coli gidA	putative	nucleoside 5'-diphosphate	phosphotransferase (EC 2.7.4.6)	Holinday junction DINA nemease (1147)	crossover junction endodeoxyribonuclease	putative	putative	glyceraldehyde-3-phosphate dehydrogenase	ribosomal protein L17	RNA polymerase alpha-subunit	RNA polymerase alpha-subunit	ribosomal protein S11	ribosomal protein S13	homolog	ribosomal protein CtrL15e	ribosomal protein CtrS5e	ribosomal protein L6	ribosomal protein L6	ribosomal protein CtrS8e	ribosomal protein CtrL5e	ribosomal protein CtrL24e	ribosomal protein CtrL14e	ribosomal protein S17e	FOO Literament mentain 1 16
End	710132	711523	712125	714761	715886	720243	722422	723056	723120		/73626	724251	724900	726270	727119	728208	728604	729533	729751	730174	730598	731996	732423	733320	733492	733900	734319	734863	735342	735604	726070
Begin	711523	712236	714734	715759	717538	719113	720590	722406	723551		724246	724754	775868	727115	728126	728594	779614	729778	730149	730539	731983	732427	732917	733598	733869	734298	734858	735195	735578	735861	20000
ORF	ORF649	ORF650	ORF651	ORF652	ORF653	ORF654	ORF655	ORF656	ORF657		ORF658	ORF659	OPF660	OBE661	ORF662	OP E663	OB E664	OR F665	ORF666	ORF667	ORF668	ORF669	ORF670	ORF671	ORF672	ORF673	ORF674	ORF675	OR F676	ORF677	2000

ORF659 737192 736524 ribosomal protein S3 D64071 Actinobacillus 612 88 ORF681 737831 ribosomal protein L22 221677 Thermotoga maritima 228 48 ORF682 739783 508 ribosomal protein L2 U18997 Exchercida coli 769 62 ORF683 739784 739705 ribosomal protein L4 X67014 Bacillus stearothermophilus 769 62 ORF683 73974 739705 ribosomal protein L4 X67014 Bacillus stearothermophilus 308 46 ORF685 744059 74905 putative 17377 174071 174071 174071 174071 174071 174071 174071 174072 174072 174072 174072 174072 174073 174073 174073 174073 174040 174404 174404 174404 174404 174404 174404 174404 174404 174404 174404 174404 174404 174404 174404 174404 174404	ORF	Begin	End	Homology	e ·	Species	Score	%I
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738688 737837 50S ribosomal subunit protein L2 U18997 Excherichia coli 769 739048 738733 putative 739065 739065 739065 739065 739065 739065 739065 739065 7393065 739065 7393065 7393065 7393065 7393065 7393065 739773 ribosomal protein L3 26255 746256 746278 740573 putative 740573 putative 740573 putative 740573 putative 740501 Symechocystis sp. 511 742789 7448278 UDP-N-acetylglucosamine acyltransferase 122690 Ricketisia rickettsii 542 742789 744092	ORF680	737555	737211	ribosomal protein L22	Z21677	Thermotoga maritima	228	48
739048 738713 putative 739048 73873 putative 465 739736 739065 ribosomal protein L3 Z46265 Thermus aquaticus thermophilus 463 740659 740659 740978 putative 545 746265 740659 740721 putative 545 745 742789 748727 methionyl-RNA formyltransferase L22690 Rocentsia ricketasi 542 744092 743782 10DP-Nacetylgitoosamine exylitransferase L22690 Rocentsia ricketasi 542 744092 744097 10DP-3-0-acyl Nacetylgicosamine exylitransferase L22690 Synechocystis sp. 33 744092 744094 10DP-3-0-acyl Nacetylgicosamine D90910 Synechocystis sp. 37 744092 744094 10DP-3-0-acyl Nacetylgicosamine D90910 Synechocystis sp. 37 744094 144096 UDP-3-0-acyl Nacetylgicosamine D90910 Synechocystis sp. 37 74708 744621 Owb homology to P14 protein D78189 Bacillus subtilis	ORF681	738688	737837	50S ribosomal subunit protein L2	U18997	Escherichia coli	769	62
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Heamophilus influenzar and 14.2 kDa Protein of Escherichia coli M22996 Bacillus subtilis 180 747974 747219 Polymerase III Po	ORF693	747085	746621	low homology to P14 protein of	D78189	Bacillus subtilis	235	37
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755120 756175 hexosephosphate transport protein M89479 Salmonella typhimurium 870 756120 756485 hexosephosphate transport protein M89479 Escherichia coli 321 756499 760227 DNA polymerase III alpha-subunit (dnaE) AE000646 Helicobacter pylori 1977 761217 760297 putative putative nutative nutative	ORF701	754309	753020	histidinetRNA ligase	Z17214	Streptococcus equisimilis	757	44
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	ORF706	761297	761809	putative				

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		Synechocystis sp.			Bacillus sublilis	Synechocystis sp.	Synechocystis sp.	Synechocystis sp.	Synechocystis sp.	Synechocystis sp.	Synechocystis sp.	Synechocystis sp. Synechocystis sp. Chlamydia trachomatis	Synechocystis sp. Synechocystis sp. Chlamydia trachomatis	Synechocystis sp. Synechocystis sp. Chlamydia trachomatis Mesembryanthemum crystallinum	Synechocystis sp. Synechocystis sp. Chlamydia trachomatis Mesembryanthemum crystallinun	Synechocystis sp. Synechocystis sp. Chlamydia trachomatis Mesembryanthemum crystallinun	Synechocystis sp. Synechocystis sp. Chlamydia trachomatis Mesembryanthemum crystallinum Bacillus subtilis	Synechocystis sp. Chlamydia trachomatis Mesembryanthemum crystallinum Bacillus subtilis Escherichia coli	Synechocystis sp. Chlamydia trachomatis Mesembryanthemum crystallinum Bacillus subtilis Escherichia coli Coxiella burnetii	Synechocystis sp. Chlamydia trachomatis Mesembryanthemum crystallinun Bacillus subtilis Escherichia coli Coxiella burnetii	Synechocystis sp. Chlamydia trachomatis Mesembryanthemum crystallinum Bacillus subtilis Escherichia coli Coxiella burnetii						
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D90908 S				ŀ	D90902 S			_				U83197 C											+++++++++++++++++++++++++++++++++++++++				
Q	<u> </u>			Σ	Ω							n	Ω														
												SSe	Se	Se	se	ise case	Se	Se	ise lease milarity to SW	ise ease milarity to SW ypothetical 32 omas putida	ise ease nilarity to SW ypothetical 32 omas putida npA, 50kd, gi	ise ease nilarity to SW rpothetical 32 omas putida npA, 50kd, gi	ise icase nilarity to SW pothetical 32 omas putida npA, 50kd, gi	sse sease milarity to SW ypothetical 32 omas putida npA, 50kd, gi an approx. 44 SW; O10089	ise icase icase initiatity to SW initiat	ise lease milarity to SW ypothetical 32 omas putida npA, 50kd, gi an approx. 44 SW: O10089 28 pct identica an approx. 44 SW: O10089	ise icase milarity to SW pothetical 32 omas putida npA, 50kd, gi an approx. 44 SW: O10089 28 pct identica an approx. 44 SW: O10089
		al protein		ypeptidase		v protein	ıv protein	ıv protein	ıv protein	ν protein	v protein	ny protein	fmu and fmv protein putative putative putative putative putative antative putative putative putative 3-phosphoglycerate kinase	ny protein y protein glycerate kinase osphate permes	fmu and fmy protein putative putative putative putative putative a-phosphoglycerate kinase putative putative putative putative putative putative	ny protein glycerate kinase osphate permea	ny protein glycerate kinase osphate permes	ny protein glycerate kinase osphate permea	fmu and fmv protein putative putative putative putative 3-phosphoglycerate kinase putative putative putative putative putative putative putative putative correction sporulation protein was dppE orf288; translated orf similarity to SWISS-	fmu and fmv protein putative putative putative putative 3-phosphoglycerate kinase putative putative putative putative putative putative putative putative putative portative prominative prominative sporulation protein was dppE orf288; translated orf similarity to SWIS PROT: YGIZ_PSEPU hypothetical 32.4 kDa protein of Pseudomomas putida	fmu and fmy protein putative putative putative putative 3-phosphoglycerate kinase putative sporulation protein was dppE orf288; translated orf similarity to SWISS PROT: YGI2_PSEPU hypothetical 32.4 kDa protein of Pseudomomas putida B. subtilis genes rpmH, mpA, 50kd, gidA and gidB	ny protein glycerate kinase cosphate permes t protein nslated orf simi nof Pseudomor enes rpmH, my	finu and finy protein putative putative putative putative putative 3-phosphoglycerate kinase putative putative putative putative putative putative putative sporulation protein was dppE orf288; translated orf similarity to SWISS- PROT: YGI2_PSEPU hypothetical 32.4 kDa protein of Pseudomomas putida B.subtilis genes rpmH, mpA, 50kd, gidA and gidB putative f406; This 406 aa orf is 28 pct identical (12	finu and finv protein putative putative putative putative 3-phosphoglycerate kinase putative sporulation protein was dppE orf288; translated orf similarity to SWISS- PROT: YGI2_PSEPU hypothetical 32.4 kDa protein of Pseudomomas putida B.subtilis genes rpmH, rnpA, 50kd, gidA and gidB putative f406; This 406 aa orf is 28 pct identical (1) gaps) to 264 residues of an approx. 440 aa protein YAOA_SCHPO SW: 010089	finu and finy protein putative putative putative putative putative 3-phosphoglycerate kinase putative putative putative putative putative putative putative sporulation protein was dppE orf288; translated orf similarity to SWISS- PROT: YGI2_PSEPU hypothetical 32.4 kDa protein of Pseudomomas putida B.subtilis genes rpmH, mpA, 50kd, gidA and gidB putative f406; This 406 aa orf is 28 pct identical (12 gaps) to 264 residues of an approx. 440 aa protein YAOA_SCHPO SW: O10089 f406; This 406 aa orf is 28 pct identical (12	finu and finy protein putative sporulation protein was dppE orf288; translated orf similarity to SWISS- PROT: YGI2_PSEPU hypothetical 32.4 kDa protein of Pseudomomas putida B.subtilis genes rpmH, mpA, 50kd, gidA and gidB putative f406; This 406 aa orf is 28 pct identical (1) gaps) to 264 residues of an approx. 440 aa protein YAOA SCHPO SW: O10089 f406; This 406 aa orf is 28 pct identical (1) gaps) to 264 residues of an approx. 440 aa protein YAOA SCHPO SW: O10089	finu and finv protein putative putative putative putative putative 3-phosphoglycerate kinase putative putative putative putative putative putative sporulation protein was dppE orf288; translated orf similarity to SWISS- PROT: YGI2_PSEPU hypothetical 32.4 kDa protein of Pseudomomas putida B.subtilis genes rpmH, mpA, 50kd, gidA and gidB putative f406; This 406 aa orf is 28 pct identical (1. gaps) to 264 residues of an approx. 440 aa protein YAOA SCHPO SW: O10089 f406; This 406 aa orf is 28 pct identical (1. gaps) to 264 residues of an approx. 440 aa protein YAOA SCHPO SW: O10089 f405; This 406 aa orf is 29 pct identical (1. gaps) to 264 residues of an approx. 440 aa protein YAOA SCHPO SW: O10089 f405; This 406 aa orf is 29 pct identical (1.
putative	putative	hypothetical protein	putative	DD-carboxypeptidase		fmu and fm	frnu and frnv protein putative	fmu and fmy putative putative	fmu and fmy putative putative putative	fmu and fmy putative putative putative	imu and imy putative putative putative putative putative	imu and imy putative putative putative putative putative a-putative	fmu and fmy putative putative putative putative putative al-putative 3-phosphogl	imu and imy putative putative putative putative putative 3-phosphog putative	imu and imy putative putative putative putative putative putative 3-phosphog putative putative putative putative putative	fmu and fmy putative putative putative putative putative putative a-phosphogl putative putative putative putative putative putative putative putative	imu and imy putative sporulation i sporulation i	imu and imv protei putative putative putative putative putative 3-phosphoglycerate putative putative putative putative putative putative was dpbE	imu and imy putative sporulation was dppE orf288; tran	imu and imy putative putative putative putative putative a-phosphogl putative putative putative putative putative putative sporulation was dppE orf288; tran PROT: YGI	imu and fmy putative putative putative putative 3-phosphog putative aputative aputative sporulation was dppE orf288; tran PROT: YGI kDa protein B.subtilis ge and gidB	imu and fmy putative putative putative putative a-phosphog putative putative putative putative putative putative cortass; tran PROT: YGI kDa protein B.subtilis ge and gidB putative	imu and fmy putative processistican PROT: YGI kDa protein B. subtilis ge and gidB putative f406; This 4	imu and fmy putative sporulation was dppE orf288; tran PROT: YGI kDa protein B.subtilis ge and gidB putative f406; This 4 gaps) to 264 protein YAC	imu and fmy putative sporulation was dppE orf288; tran PROT: YGI kDa protein B.subtilis ge and gidB putative f406; This 4 gaps) to 264 protein YAC fa06; This 4	imu and fmy putative sporulation was dppE orf288; trans PROT: YGI kDa protein B.subtilis ge and gidB putative f406; This 4 gaps) to 264 protein YAC face; This 4 gaps) to 264	imu and fmy putative process; tran PROT: YGI kDa brotein B. subtilis ge and gidB putative f406; This 4 gaps) to 264 gaps) to 264 protein YAC f405; This 4 gaps) to 264 protein YAC f405; This 4 gaps) to 264 protein YAC f405; This 4 gaps) to 264
762282	762895	763316	763325	765168		769697	765697 766888	765697 766888 768321	765697 766888 768321 768551	765697 766888 768321 768551 769378	765697 766888 768321 768551 769378	765697 766888 768321 768551 769378 770804	765697 766888 768321 768551 769378 770804 771847	765697 766888 768321 768321 768551 770804 771847 773456 773456	765697 766888 768321 768321 768321 769378 770804 771847 771847 773093												
761782	762260	762867	763780	763861	608992		768051	768051	76805 768560 76934	768051 768566 769342 770532	768051 76856 769342 770532 771451	768051 768566 769347 771053 77145	768051 768366 769342 770532 771451 773058	768051 768366 770532 771451 773094 773094	768051 768366 769342 770532 771451 773094 773094 773094	768051 769342 770532 771451 773058 773094 774376 775123	768051 768366 770532 771451 773094 774376 775123 775123	768051 769342 770532 771451 773094 773094 775123 775398	768051 76836 770532 771451 773094 773094 775123 775398 775398	768051 769347 770537 77145 773095 774374 775308 775127 775304 775304 775304 775044	768051 768566 769342 771451 773058 773094 774376 775123 775123 775123 775146 777964	768051 768366 770532 771451 773058 773058 775123 775123 775046 777964	768051 768366 769342 770532 771451 773058 775123 775123 775046 777964 777964	76856 76836 76934 77053 77145 77309 77539 77539 77539 77530 77530 77530 77530 77530 77530 77530 77530 77530 77530 77530 77530 77530 77530 77530 77730	768051 768366 770532 771451 773094 774376 775123 775123 775046 777964 777176 778621 781173	768051 768345 770535 77145 773095 774376 775125 775125 775125 777504 777504 777504 777504 777504 777504 777504 777504 777504	768051 76836 770532 771451 773094 773094 775123 775123 775123 775123 775123 7778621 778621 781173
ORF707	ORF708	ORF709	ORF710	ORF711	ORF712	ORF713	11. 11.	ORF714	ORF714 ORF715	ORF714 ORF715 ORF716	ORF714 ORF715 ORF716	ORF714 ORF715 ORF716 ORF717	ORF714 ORF715 ORF716 ORF717 ORF719	ORF714 ORF715 ORF716 ORF717 ORF719 ORF719	ORF714 ORF715 ORF716 ORF717 ORF718 ORF719 ORF720	ORF714 ORF715 ORF716 ORF717 ORF718 ORF719 ORF720 ORF721	ORF714 ORF715 ORF716 ORF717 ORF719 ORF720 ORF721 ORF721	ORF714 ORF715 ORF716 ORF717 ORF719 ORF720 ORF721 ORF722	ORF714 ORF715 ORF716 ORF717 ORF719 ORF720 ORF721 ORF722 ORF722	ORF714 ORF715 ORF716 ORF717 ORF719 ORF721 ORF721 ORF722 ORF722 ORF722	ORF714 ORF716 ORF716 ORF717 ORF720 ORF721 ORF721 ORF724 ORF724 ORF725 ORF725	ORF714 ORF716 ORF716 ORF717 ORF719 ORF720 ORF721 ORF722 ORF722 ORF723 ORF724 ORF725 ORF725	ORF714 ORF715 ORF716 ORF717 ORF719 ORF720 ORF721 ORF722 ORF722 ORF723 ORF723 ORF724 ORF725	ORF714 ORF715 ORF716 ORF718 ORF720 ORF721 ORF722 ORF724 ORF724 ORF725 ORF725 ORF725 ORF725	ORF726 ORF720 ORF717 ORF718 ORF720 ORF721 ORF721 ORF722 ORF723 ORF724 ORF725 ORF725 ORF726 ORF726	ORF714 ORF715 ORF716 ORF717 ORF720 ORF721 ORF721 ORF724 ORF725 ORF726 ORF726 ORF726 ORF726	ORF726 ORF716 ORF716 ORF717 ORF720 ORF721 ORF721 ORF724 ORF725 ORF725 ORF726 ORF726 ORF727 ORF727 ORF729

ORF	Begin	End	Homology	a	Species	Score	<u>%</u>
005201	702577	787805	hypothetical chloroplast ORF 16	U38804	Porphyra purpurea	597	52
ORF /31	785037	783581	ABC transporter subunit	D64004	Synechocystis sp.	1720	8
OR F733	786412	785360	putative				1
ORF734	788429	786450	dqd	Y14206	Streptomyces coelicolor	148	ည်း
ORF735	788944	788528	penicillin-binding protein 3	X84053	Pseudomonas aeruginosa	148	28
ORF736	789758	788901	putative			000	8
ORF737	790332	791504	major outer membrane protein	M64064	Chlamydia pneumoniae	2078	2 5
ORF738	791846	792721	ribosomal protein S2	U60196	Chlamydia trachomatis	¥ 5	2 ;
ORF739	792724	793569	elongation factor Ts	U60196	Chlamydia trachomatis	1023	7 6
ORF740	793580	794323	UMP kinase	U60196	Chlamydia trachomatis	891	7 6
ORF741	794304	794843	ribosome-releasing factor	U60196	Chlamydia trachomatis	6/3	2 5
ORF742	795217	795732	unknown	D26185	Bacillus subtilis	103	47
OR F743	795722	796795	unknown	D26185	Bacillus subtilis	708	33
OR F744	798735	797053	putative	L33796	Vibrio cholerae	386	34
ORF745	799823	798681	putative				
ORF746	799297	799578	putative			-	- 19
ORF747	801313	799808	Pkn5	U40656	Myxococcus xanthus	345	3
ORF748	802453	801332	putative			-	
ORF749	803299	802457	putative				
ORF750	803811	803290	putative				5
ORF751	805151	803826	YscN	U02499	Yersinia enterocolitica	1182	2
ORF752	805860	805156	putative				
ORF753	806604	806332	putative	-			
ORF754	806913	809908	putative			-	
ORF755	808222	806903	putative				
ORF756	808751	808146	putative				
ORF757	809437	808673	putative			-	
ORF758	809939	809454	putative				\$
ORF759	811235	810213	delta-aminolevulinate synthase (EC	M30785	Escherichia coli	7/1	
			2.3.1.37)				- 6
ORF760	811779	813056	DNA gyrase subunit B	U35453	Clostridium acetobutylicum	284	×
ORF761	812890	812516	putative				
ORF762	812954	813583	DNA gyrase subunit B	Z19108	Spiroplasma citri	3/1	5

	negin	End	Homology	e	Species	Score	<u> </u>
				202001	1. L.	717	4,4
ORF763	813587	815023	gyrA	X92503	Mycobacterium smegmuns	*	3
ORF764	815420	815746	putative		•••	3	i
ORF765	816036	817010	orf-X; hypothetical protein; Method:	U48870	Bacillus subtilis	269	
•			conceptual translation supplied by author				7
ORF766	817111	817356	unknown	Z74024	Mycobacterium tuberculosis	114	2 2
ORF767	817791	818609	3-deoxy-d-manno-octulosonic acid 8-	Z50747	Chlamydia psittaci	11112	×
			phosphate synthetase				;
ORF768	818609	819094	protein of unknown function	Z50747	Chlamydia psittaci	545	3 8
ORF769	819104	819823	ATP binding protein	U72493	Chlamydia trachomatis	1099	8
ORF770	820722	819826	putative				
ORF771	822313	821000	putative				T
ORF772	823503	822238	putative				T
ORF773	823678	825612	putative			1	T
ORF774	825461	826312	putative				T
ORF775	827280	826645	putative			0,1	5
ORF776	828604	827171	76 kDa protein	L23921	Chlamydia pneumoniae	6/17	3
ORF777	830026	828713	76 kDa protein	L23921	Chlamydia pneumoniae	1162	3
ORF778	831047	830085	mviB homolog	U50732	Chlamydia trachomatis	982	2
ORE779	831725	831051	mviB homolog	U50732	Chlamydia trachomatis	740	65
ORF780	832220	833098	T05H10.2	Z47812	Caenorhabditis elegans	407	34
ORF781	833851	833396	ribosomal protein S4 (rps4)	AE000633	Helicobacter pylori	372	53
ORF782	834068	835039	This ORF is homologous to a 40.0 kd	L22217	Mycoplasma-like organism	377	49
			hypothetical protein in the htrB 3' region				
`			from E. coli, Accession Number X61000			707	5
ORF783	835792	835127	uridine kinase	L31783	Mus musculus	430	3 5
ORF784	837624	836116	ORF f397	U29581	Escherichia coli	76	ž,
ORF785	838951	840882	putative				1
ORF786	840869	842185	exodeoxyribonuclease V (recB)	U32811	Haemophilus influenzae	409	9
ORF787	841989	843455	DNA helicase II	U39703	Mycoplasma genitalium	011	94
ORF788	843242	844021	exodeoxyribonuclease V (recB)	U32811	Haemophilus influenzae	196	8
ORF789	845018	843987	MreC protein	M31792	Escherichia coli	76	23
ORF790	846174	844990	aspartate aminotransferase (aspC)	X03629	Escherichia coli	754	9
ORF791	848509	846311	GreA	U02878	Rickettsia prowazekii	190	35

ORF792 848568 ORF793 849082 ORF794 851512 ORF795 852064 ORF796 852398 ORF797 855118 ORF798 855751 ORF801 856730 ORF801 858717 ORF803 861132 ORF804 861132 ORF805 861701 ORF806 863026 ORF807 864831 ORF808 865226 ORF809 866562 ORF809 866562 ORF801 865205	Begin End	Homology	a	Species	Score	 %I
	8 849014	putative				
		NADH:ubiquinone oxidoreducatase subunit	U32702	Haemophilus influenzae	445	3,
	2 850574		U38348	Chlorobium vibrioforme	692	45
		putative				T
	-	putative				\ ;
	-	geranylgeranyl pyrophosphate synthase	D85029	Arabidopsis thaliana	408	4/
		f147; This 147 as orf is 26 pct identical (1	AE000143	Escherichia coli	/81	36
		gaps) to 99 residues of an approx. 728 aa				
		protein E2BE KABII SW: F4/823	M28368	Salmonella typhimurium	172	36.
	+	Illetinorate associated regulatory process	722530	Chlamidia trachomatis	842	35
	-	unknown function	1100011	Transalilla influence	183	15
		exodeoxyribonuclease V (recL))	118750	Haemophilus influenzue	107	: 14
	1 860205	exonuclease V alpha subunit (AA 1-608)	X04582	Escherichia coli	667	£
	2 860284	putative				T:
		30S ribosomal protein S20	Z67753	Odontella sinensis	153	4
	1 862921	putative			57,76	2
	6 864798	major sigma factor	U04442	Chlamydia psittaci	1997	7
	1 865256	putative			0.0	ę
	6 866581	dihydropterin pyrophosphokinase	Y08611	Pisum sativum	455	48
		/dihydropteroate synthase		V	223	Ş
	2 867119	dehydrofolate reductase, type I (folA)	U32772	Haemophilus influenzae	202	7
	5 867816	M. jannaschii predicted coding region	U67522	Methanococcus jannaschu	/07	95
		MJ0768				
ORF811 867820	0 868497	putative			1510	10
	3 868661	RecA	U16739	Chlamydia trachomatis	710	2
-	3 870094	unknown function	Z32530	Chlamydia trachomatis	308	3
		unknown function	Z32530	Chlamydia trachomatis	1410	8
		putative				T
		putative				5
	874670	nifR3-like gene product	Z37984	Azospirillum brasilense	181	75
ORF818 874582	875286	ORF1 gene product	X62399	Escherichia coli	30/	77
ORF819 877857	57 875377	DNA topoisomerase I	L27/9/	Bacıllus subtilis	1400	2

)re 1%		57 47	├)1 51	14 39	37			5 39	-	-	3 55	┢	-	-	7 48	-		0 35	-	3 40		┝	┞		7 35	\vdash				•
Score		257	1140	601	344	456		<u></u>	915	474		22.	222	28(77	157		120	381	253	1667	959			117				***************************************	
Species		Azotobacter vinelandii	Synechocystis sp.	Bacillus subtilis	Synechocystis sp.	Bacillus subtilis			Chlamydia trachomatis	Hordeum vulgare		Bacillus subtilis	Escherichia coli	Haemophilus influenzae		Escherichia coli	Haemophilus influenzae		Escherichia coli	Bacillus subtilis	Paenibacillus macerans	Paenibacillus macerans	Paenibacillus macerans			Synechocystis sp.					
Q.		X05888	D90906	X73124	D90915	L19954			L12004	Z34917		Y14079	X65796	U32470		M28819	U32722		Z36905	D26185	Y08563	Y08563	Y08563			D90905					
Homology	putative	sigma factor (ntrA) (AA 1-502)	DNA helicase II	ipa-57d gene product	hypothetical protein	19/20 residue stretch (32-51) identical to N-	terminal putative signal sequence of	unknown, partly cloned B. subtilis gene.;	heat shock protein	bas1 protein	putative	hypothetical protein	peptidoglycan-associated lipoprotein	TolB	putative	exbD peptide	inner membrane protein (tolQ)	putative	inner membrane copper tolerance protein	unknown	succinate dehydrogenase subunit C	succinate dehydrogenase subunit A	succinate dehydrogenase subunit B	putative	putative	sigma factor SibG regulation protein RsbU	putative	putative	putative		putative
End	879255	879268	880593	883319	883538	885611			887302	888153	888220	888716	889323	868688	891247	892017	892421	892925	895419	896527	897558	899442	900229	900237	903234	905045	907832	908128	<i>LL</i> 9806	000000	909320
Begin	878446	880635	882524	882612	884155	884340			885722	887587	888627	889330	868688	891190	891828	892421	893116	892521	893392	895745	899968	897565	899420	903230	905081	906931	907248	907784	908132	002000	708389
ORF	ORF820	ORF821	ORF822	ORF823	ORF824	ORF825			ORF826	ORF827	ORF828	ORF829	ORF830	ORF831	ORF832	ORF833	ORF834	ORF835	ORF836	ORF837	ORF838	ORF839	ORF840	ORF841	ORF842	ORF843	ORF844	ORF845	ORF846	Chpro47	OKro4/

ORF	Begin	End	Homology	a ·	Species	Score	<u>%</u>
ORF850	912303	912821	putative				
ORF851	912937	913983	putative				
ORF852	915128	914067	putative		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3001	S
ORF853	916658	915303	enolase	L29475	Bacillus subtilis	001	3
ORF854	915627	915376	enolase	U43738	Mycoplasma pneumoniae	077	6
ORF855	917707	916853	excinuclease ABC subunit B (uvrB)	U32804	Haemophilus influenzae	47/	2
ORF856	918837	917722	excinuclease ABC subunit B (uvrB)	U32804	Haemophilus influenzae	6701	7 5
ORF857	919868	918837	tryptophanyl-tRNA synthetase (trpS)	U32746	Haemophilus influenzae	3/0	₹
ORF858	920434	919880	putative			121	Ş
ORF859	921187	920438	ORF8	X82078	Chlamydia sp.	104	3
ORF860	921959	921195	hypothetical protein	X62475	Chlamydia psittaci	211	‡
ORF861	923773	921995	Threonyl tRNA Synthetase	Z80360	Bacillus subtitis	14/0	\$
ORF862	922146	922415	putative				
ORF863	923943	923674	putative				
ORF864	924077	925006	putative				
ORF865	925436	925083	putative				
ORF866	926524	925349	putative				
ORF867	927920	926433	putative				
ORF868	928319	927951	putative			-	
ORF869	928963	928334	putative		ξ	303	Ş
ORF870	929248	930987	DNA mismatch repair protein (mutL)	U32692	Haemophilus influenzae	285	200
ORF871	930995	932059	YqhT	D84432	Bacillus subinits	C##	3
ORF872	932121	933515	putative				
ORF873	932881	932513	putative			010	33
ORF874	933485	935746	pulD (ttg start codon)	M32613	Klebsiella pneumoniae	017	3 3
ORF875	935724	937082	epsE	M96172	Vibrio cholerae	068	S 5
ORF876	937229	938410	PilG	U32588	Neisseria gonorrhoeae	780	38
ORF877	938281	938805	putative			1	
ORF878	938809	939255	putative				
ORF879	939165	939782	putative				
ORF880	939760	940791	putative				
ORF881	940822	941106	putative				
ORF882	940977	941351	putative				

	Begin	End	Homology	a	Species	Score	%1
ORF883	942537	941623	vscT	1.25667	Versinia nseudotuberculosis	169	44
ORF884	942784	942500	yscS	L25667	Yersinia pseudotuberculosis	173	42
ORF885	943149	942799	HrcR	AE000107	Rhizobium sp. NGR234	265	52
ORF886	943799	943029	pathogenicity protein	M64094	Xanthomonas campestris	252	41
ORF887	944055	943732	putative	M74011	Yersinia enterocolitica	112	33
ORF888	944413	943994	putative				
ORF889	945395	944556	putative				
ORF890	945853	945389	putative				
ORF891	946392	945751	HrcJ	US6662	Erwinia amylovora	229	44
ORF892	947410	948081	putative				T -
ORF893	949871	948915	ORF YOR196c	Z75104	Saccharomyces cerevisiae	702	4
ORF894	951058	949868	dihydrolipoamide dehydrogenase E3	M57435	Bacillus subtilis	745	39
			subunit				
ORF895	951249	950959	dihydrolipoamide acetyltransferase E3	M73535	Staphylococcus aureus	166	49
,,000.00	,,,,,,		nungns				
ORF896	951664	952134	putative				
ORF897	952674	952165	SNF	X98455	Bacillus cereus	229	47
ORF898	953491	952589	helicase	U39680	Mycoplasma genitalium	307	42
ORF899	955324	953495	F01G4.1	Z68341	Caenorhabditis elegans	133	57
ORF900	955823	955281	putative				
ORF901	957082	955847	branched-chain amino acid carrier	Z48676	Lactobacillus delbrueckii	297	9
ORF902	957902	957270	endonuclease III	U11289	Bacillus subtilis	317	37
ORF903	959231	927906	homologous to E.coli 50K	X62539	Bacillus subtilis	805	45
ORF904	959376	960284	phosphatidylserine decarboxylase	U72715	Chlamydia trachomatis	776	51
ORF905	960266	699196	putative				
ORF906	961856	964765	secretory component	U06928	Caulobacter crescentus	1812	55
ORF907	966855	965395	28.2% of identity to the Escherichia coli	L47648	Bacillus subtilis	778	41
	-		GTP-binding protein Era; putative				
ORF908	968204	966975	poly(A) polymerase	L47709	Bacillus subtilis	383	41
ORF909	968791	968237	ClpX-like protein	U18229	Bacillus subtilis	340	39
ORF910	969498	968731	ATP-dependent protease ATPase subunit	D64006	Synechocystis sp.	846	99
ORF911	969858	969511	ClpP	U16135	Synechococcus sp.	257	54

ORF	Begin	End	Homology	}			
ORF912	970118	969762	ATP-dependent clp protease proteolytic component (clpP)	AE000591	Helicobacter pylori	362	63
ORF913	970593	970300	putative				
ORF914	971261	970542	putative				
ORF915	971680	971123	putative			27.0	9
ORF916	971876	975100	SNF	X98455	Bacillus cereus	0//	i y
ORF917	975419	976516	MreB protein	M96343	Bacillus subtilis	1667	3/2
ORF918	976584	978320	phospho enol pyruvate carboxykinase	S56812	Chlorobium iimicoid	1001	5
ORF919	089226	977231	putative				
ORF920	978399	980738	putative				
ORF921	980756	981928	putative		1. 1.	7.0	5
ORF922	982974	981931	precursor protein (AA -22 to 371)	X52557	Chlamydia irachomaiis	7,0	3 5
ORF923	984120	983119	NAD+ dependent glycerol-3-phosphate	L47648	Bacillus subtilis	010	.
			dehydrogenase	077700	Uomo equione	254	34
ORF924	985502	984120	AgX-1 antigen [human, infertile patient,	0/10490	nomo suprens		
ODE025	987180	985882	ORF 4	M72718	Bacillus subtilis	269	38
ODEOOK	087177	987444	putative				
OR F927	989846	989049	nifU-like protein	AE000542	Helicobacter pylori	302	3
OR F978	991048	989846	putative				5
02020	001638	990955	phosphoglyceromutase	L09651	Zymomonas mobilis	4/1	2
OD 5030	991794	992498	ORFX13	L09228	Bacillus subtilis	403	2/3
OD E021	003610	993041	hiotin facetyl-CoA-carboxylase ligase	L47709	Bacillus subtilis	136	2
OBE027	993619	994792	rod-shape-determining protein	M22857	Escherichia coli	312	4
ON 232	995970	994795	cadmium-transporting ATPase	D64005	Synechocystis sp.	358	4 8
OR F034	996857	995739	ATPase	L28104	Transposon Tn5422	449	2
OR F035	997603	996782	putative				15
ORFO36	696866	997572	seryl-tma synthetase	Y09924	Staphylococcus aureus	321	3
OD E027	908800	1000023	orf2, homologue to B.subtilis ribG	X64395	Escherichia coli	390	3 €
OD 5038	1000087	1001340	GTP cyclohydrolase II	D90912	Synechocystis sp.	1078	22
OR F030	1001357	1001818	riboflavin synthase beta subunit	U27202	Actinobacillus pleuropneumoniae	8/7	ধ
OR F940	1003288	1001873	putative.				
00000	1002407	1004146	putative				

ORF	Begin	End	Homology	an .	Species	Score	%
OP F947	1004485	1005639	D-alanine glycine permease (dagA)	AE000603	Helicobacter pylori	394	33
OR F943	1005643	1005972	hypothetical protein MTCY180.08	Z97193	Mycobacterium tuberculosis	274	58
ORF944.	1006784	1006116	similar to trithorax protein in final three	U13875	Caenorhabditis elegans	155	46
			exons	000000	11. 1	707	30
ORF945	1007563	1006769	yyeJ	D78193	Bacillus subtilis	406	8 :
ORF946	1009226	1007568	YtpT	AF008220	Bacillus subtillis	266	4
ORF947	1009989	1009336	putative				T
ORF948	1015852	1016337	putative				
ORF949	1016561	1016181	putative				
ORF950	1016297	1017532	putative				
ORF951	1016802	1016452	putative				
ORF952	1018993	1017701	phenolhydroxylase component	U32702	Haemophilus influenzae	606	4
ORF953	1019454	1019137	ORF	M63939	Escherichia coli	96	45
ORF954	1020764	1019562	pCTHom1 gene product	M94254	Chlamydia trachomatis	1185	65
ORF955	1021405	1021037	histone H1-like protein	M80324	Chlamydia psittaci	319	62
ORF956	1021821	1024286	phosphoprotein	L25078	Chlamydia trachomatis	739	4
ORF957	1024697	1024248	putative				
ORF958	1025569	1024508	protoporphyrinogen oxidase	U25114	Mus musculus	98	38
ORF959	1026969	1025590	oxygen independent coprophorphyrinogen	D90912	Synechocystis sp.	880	42
ORFORD	1027789	1026947	uroporphyrinogen decarboxylase	M97208	Bacillus subtilis	372	38
ORF961	1031199	1027945	transcription-repair coupling factor (trcF)	U32805	Haemophilus influenzae	1584	42
ORF962	1031717	1031172	alanyl-tRNA synthetase	X95571	Thiobacillus ferrooxidans	92	31
ORF963	1033057	1031612	alanyl-tRNA synthetase	AE000353	Escherichia coli	889	9
ORF964	1033425	1033039	alanyl-tRNA synthetase (alaS)	AE000629	Helicobacter pylori	327	51
ORF965	1033784	1033200	alanyl-tRNA synthetase	35995K	Rhizobium leguminosarum	416	47
ORF966	1033963	1036038	transketolase	Z73234	Bacillus subtilis	1398	44
ORF967	1036945	1036010	AMP nucleosidase	AE000290	Escherichia coli	265	42
ORF968	1037110	1037679	elongation factor P	U14003	Escherichia coli	458	51
ORF969	1037696	1037944	putative				
ORF970	1038916	1037975	putative				
ORF971	1040582	1039026	HSP60 chaperonin	X62914	Clostridium perfringens	284	3

X51584 Escherichia coli U32793 Haemophilus influenzae X51419 Bacillus subtilis X51419 Bacillus subtilis X51419 Bacillus subtilis X51419 Bacillus subtilis U32794 Haemophilus influenzae	PROBABLE UDP-N- ACETYLMURAMOYLALANYL-D- GLUTAMYL-2; 6-DIAMINOLIGASE (EC 6.3.2.15). ORF-Y (AA 1-360) UDP-N-acetylmuramoylalanine-D- glutamate ligase (murD) hypothetical protein spoVE gene product (AA 1-366) mur UDP-N-acetylmuramate-alanine ligase (murC) unknown cycY gene product putative hypothetical protein trna delta(2)-isopentenylpyrophosphate trna delta(2)-isopentenylpyrophosphate transferase conserved hypothetical protein putative
	ine-D- ine ligase phosphate
	ne-D- 66) ine ligase phosphate n
+	ne ligase
	ne ligase hosphate
	ne ligase hosphate
	ne ligase hosphate
:	hosphate
Z74024 Mycobacterium tuberculosis	hosphate
U14003 Escherichia coli	hosphate
\dashv	hosphate
-	hosphate
Z98209 Mycobacterium tuberculosis	
AF000579 Helicobacter pylori	
-	
L13242 Ricinus communis	
-	
9	inorganic pyrophosphatase (ppa)
-	leucine dehydrogenase LeuDH
U40433 Arabidopsis thaliana	3'(2'),5'-bisphosphate nucleotidase
\dashv	
U29581 Escherichia coli	2-acylglycerophosphoethanolamine acyl
1000074	transferase/acyl carrier protein synthetase
S N129291 Bacilius spriaericus	7-keto-8-aminopelargonic acid synthetase (hioF)
Y10304 Bacillus subtilis	

Score I%		-	_	\dashv	254 37	\dashv	\perp	\dashv	431 56	-	78 46	\dashv	-	118 38	\dashv	\dashv	\dashv	565 39	303 40	222 37			2569 48	\dashv	+	\dashv					190 79.	_
Species				Chlamydia psittaci	Chlamydia psittaci				Haemophilus influenzae		Escherichia coli		Escherichia coli	Caenorhabditis elegans		Bacillus subtilis	Aquifex pyrophilus		Haemophilus influenzae	losis			Chlamydia trachomatis			Synechocystis sp.		Chlamydia trachomatis	Helicobacter pylori	Chlamydia trachomatis	Chlamydia trachomatis	
A .			U41759	U41759	U41759		D90906	L14580	U32693		M11056		U18997	Z75536		J03294	U71154	D90909	U32735	Z83860			U20547		U87792	D90899	X16518	U31570	AE000630	M62820	M62820	
Homology	putative	putative	unknown	unknown	unknown	putative	lysyl-tRNA synthetase	cysteinyl-tRNA synthetase	cys-tRNA synthetase (cysS)	putative	ribonuclease P protein component (gtg start	codon)	30S ribosomal subunit protein S14	F18C12.2	putative	deoxyribodipyrimidine photolyase	DNA mismatch repair protein	DNA mismatch repair protein	DNA primase (dnaG)	DnaG	putative	putative	glycyl-tRNA synthetase	putative	phosphatidylglycerophosphate synthase	glycogen (starch) synthase	partial ctc gene product (AA 1-186)	peptidyl-tRNA hydrolase	ribosomal protein S6 (rps6)	ribosomal protein S18 homolog; putative	putative heat shock protein ORF; putative	- The state of the
End	1067376	1068706	1068819	1070033	1071332	1073476	1075864	1075867	1076573	1078724	1078672		1079944	1079995	1081341	1081350	1083235	1084632	1086737	1087897	1089005	5086801	1089890	1092889	1094204	1094192	1096628	1097082	1097601	1097867	1098392	1009279
Begin	1068065	1068209	1069958	1071163	1072438	1072997	1074239	1076790	1077268	1077999	1079088		1079642	1080501	1080775	1083158	1084677	1085648	1086117	1086692	1088646	1089146	1092931	1093179	1093584	1095619	1096074	1096633	1097266	1097622	1097886	1000521
ORF	ORF997	ORF998	ORF999	ORF1000	ORF1001	ORF1002	ORF1003	ORF1004	ORF1005	ORF1006	ORF1007		ORF1008	ORF1009	ORF1010	ORF1011	ORF1012	ORF1013	ORF1014	ORF1015	ORF1016	ORF1017	ORF1018	ORF1019	ORF1020	ORF1021	ORF1022	ORF1023	ORF1024	ORF1025	ORF1026	ODE1027

Score 1%	++	\dashv	855 38		+	+	205 35	352 44	-	477 42	555 46	-	-		494 44		374 50	+	281 41	\dashv	\dashv	-	978 63				\dashv	+	497 41	-	+	
Species		Cucumis sativus	Escherichia coli 8				Helicobacter pylori 2	Chlomvdia nsittaci		Haemonhilus influenzae 4			1000		Escherichia coli		Thermus aquaticus thermophilus 3		Escherichia coli		Haemophilus influenzae 4	Escherichia coli	Dictyostelium discoideum 9						Yersinia enterocolitica 4		Caenorhabditis elegans 4	
A -		M80571	U18997			U59433	AE000540	1177499		1132786	A F000123	1 12968	A E000651	AEUUUUU	AE000450		U17352		AE000284		U32760	J01619	U23408					D90905	D78376		Z93386	
Homology	putative	glycerol-3-phosphate acyltransferase	ORF_f495; orfF.of ECMRED, uses 2nd	start	putative	PlsX	fatty acid/phospholipid synthesis protein	(DISA)	puditive 70 NO Outer inclinitative protein	Suid A discooperide synthetase (InvR)	III)IU A UISACCIIAI IUC SYIIUICUSC (19A2)	poly(A) polylliciasc	putative	glucosamine fructose-o-phosphate	glutamine amidotransferase; glucosamine	frictose-6-phosphate aminotransferase	L-glutamine:D-fructose-6-P	amidotransferase precursor	tyrosine-specific transport protein	putative	cell division protein (ftsY)	succinyl-CoA synthetase beta-subunit	succinyl coenzyme A synthetase alpha	subunit	putative	putative	putative	serine protease HtrA	GsrA protein	putative	R11H6.1	
End	1101107	1102116	1104946		1107249	1108101	1108421	1112220	1113370	1115447	11150/1	1110694	1120030	1120522	1121430		1121866		1122899	1125564	1125579	1127676	1128571		1131336	1132553	1133843	1134855	1135592	1135653	1135954	
Begin	1102192	1104950	1106508		1106722	1107463	1108041	0000011	1108520	1114938	C160111	1118183	1118846	1120040	1120510	212211	1121321		1122123	1124842	1126526	1126519	1127672		1130230	1131480	1132830	1134121	1134642	1135964	1137132	
ORF	ORF1029	ORF1030	ORF1031		ORF1032	ORF1033	ORF1034		ORF 1035	OKF1036	OKF 103/	ORF 1038	ORF1039	ORF1040	ORE1041	i Loi raio	ORF1042		ORF1043	ORF1044	ORF1045	ORF1046	ORF1047		ORF1048	ORF1049	ORF1050	ORF1051	ORF1052	ORF1053	ORF1054	

	negun	End	Homology	a ,	Species	21000	?
				A E000450	Darkowishin onli	222	37
ORF1056	1141365	1140112	hypothetical 54.7 kD protein in udp 3 region precursor (0475)	AE000459	Escrerionia con	777	5
ORF1057	1142150	1141356	phosphatidylserine synthase (pssA)	AE000614	Helicobacter pylori	307	14
ORF1058	1142520	1145660	ribonucleotide reductase subunit M1	K02927	Mus musculus	1433	45
ORF1059	1145627	1146721	ribonucleoside diphosphate reductase, beta	AE000553	Helicobacter pylori	443	32
	111/0/2	1147646	subunit (mdb)	705308	Mycohacterium lenrae	161	35
OKF 1060	1140802	114/343	ViaR	AF008220	Bacillus subtilis	262	4
ORF1062	1148514	1148224	ORF2	U01958	Bacillus licheniformis	135	54
ORF1063	1149136	1148348	ORF2	M31827	Bacillus subtilis	268	9
ORF1064	1149702	1149166	putative				
ORF1065	1150031	1150591	unknown	Z85982	Mycobacterium tuberculosis	445	49
ORF1066	1150785	1151147	ribosomal protein L20 (AA 1-119)	X16188	Bacillus stearothermophilus	273	4
ORF1067	1151165	1152181	phenylalany-tRNA synthetase beta subunit	Z75208	Bacillus subtilis	777	9
ORF1068	1152522	1154591	putative				
ORF1069	1155666	1154566	putative				
ORF1070	1156743	1155670	putative				
ORF1071	1156859	1157815	hypothetical	U32723	Haemophilus influenzae	252	42
ORF1072	1157982	1160735	ATP-binding protein	U01376	Escherichia coli	1314	26
ORF1073	1162620	1160917	polynucleotide phosphorylase	AF010578	Pisum sativum	1416	22
ORF1074	1162970	1162590	polyribonucleotide phophorylase	U52048	Spinacia oleracea	312	23
ORF1075	1163532	1164020	orf150 gene product	X95938	Porphyromonas gingivalis	335	43
ORF1076	1163995	1164294	putative				
ORF1077	1165569	1165030	putative				
ORF1078	1166108	1165566	putative				
ORF1079	1166644	1166141	putative				
ORF1080	1167055	1168374	putative				
ORF1081	1169218	1168337	methionine aminopeptidase	D64003	Synechocystis sp.	488	54
ORF1082	1169823	1169218	ORF 0197	U18997	Escherichia coli	281	8
ORF1083	1171324	1170572	putative				
ORF1084	1172085	1171177	hypothetical	U32720	Haemophilus influenzae	162	4.
ORF1085	1172394	1173773	fumarase	D64000	Synechocystis sp.	1292	57
ORF1086	1175209	1173881	prs-associated putative membrane protein	U02424	Escherichia coli	570	39

ORF	Begin	End	Homology	<u>a</u> -	Species	Score	%I
ORF1087	1175555	1175127	hypothetical protein in pth-prs intergenic	AE000219	Escherichia coli	278	46
ORF1088	1175778	1177043	hypothetical protein	Z96072	Mycobacterium tuberculosis	109	43
ORF1089	1177177	1179048	putative				
ORF1090	1179156	1180085	penicillin tolerance protein (lytB)	U32781	Haemophilus influenzae	731	22
ORF1091	1180045	1180779	putative				
ORF1092	1181942	1180788	putative				
ORF1093	1182296	1181961	putative				
ORF1094	1183844	1182300	putative				
ORF1095 .	1184420	1183848	putative				
ORF1096	1185382	1184366	putative				$ \top $
ORF1097	1185858	1185226	putative				
ORF1098	1186164	1186481	putative				
ORF1099	1187386	1186484	site-specific recombinase	U92524	Salmonella typhimurium	401	48
ORF1100	1187370	1189028	phophoglucoisomerase-like protein	L40822	Chlamydia trachomatis	1154	8
ORF1101	1189321	1190889	putative				
ORF1102	1191142	1192146	NADP-malate dehydrogenase	L40958	Flaveria bidentis	775	46
ORF1103	1191974	1191729	putative				
ORF1104	1193815	1192991	putative				
ORF1105	1195702	1194248	o460; This 460 aa orf is 46 pct identical (26	AE000256	Escherichia coli	1022	44
			gaps) to 458 residues of an approx. 488 aa				
ORF1106	1196303	1195716	putetive				T
ORF1107	1196831	1196337	putative	•			
ORF1108	1197807	1196746	putative				
ORF1109	1198740	1197883	putative				
ORF1110	1200232	1198721	shikimate 5-dehydrogenase	U67551	Methanococcus jannaschii	245	37
ORF1111	1201286	1200135	3-dehydroquinate synthase (aroB)	U32705	Haemophilus influenzae	478	45
ORF1112	1202386	1201259	2,3-dihydroxybenzoic acid	L29562	Vibrio anguillarum	780	20
ORF1113	1202901	1202350	putative				
ORF1114	1204162	1202816	5-enolpyruvylshikimate 3-phosphate	N67500	Methanococcus jannaschii	520	40
			synthase				T
ORF1115	1203177	1203464	putative				7

Score I%		834 48	243 37	601 41	892 52	237 34		345	345	345 444 473	345 444 473 238	345 444 473 238	345 444 473 238	345 444 473 238	345 444 473 238	345 444 473 238	345 444 473 238	345 444 473 238 621	345 444 473 238 238 621	345 444 473 238 621 422	345 444 473 238 621 621	345 444 473 238 238 621 621	345 444 473 238 238 621 621 1129 666	345 444 473 238 238 621 621 1129 716	345 444 473 238 238 621 621 1129 666 666	345 444 473 238 238 621 621 1129 666 666	345 444 473 238 238 621 621 1129 716 311	444 444 473 238 238 621 621 1129 666 666 666 666 988 198	345 444 473 238 238 621 621 621 716 716 716	345 444 473 238 238 1129 666 666 716 716 718 458	345 444 473 238 238 621 621 1129 666 666 716 716 716 716	345 444 473 238 238 621 621 666 666 666 716 716 716	345 444 473 238 238 621 621 1129 666 666 666 671 198 458
Species		unidentified	Haemophilus influenzae	Bacillus subtilis	Arabidopsis thaliana	Gallus gallus		Pseudomonas syringae pv. tabaci	Pseudomonas syringae pv. tabaci Methanococcus jannaschii	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp.	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp.	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp.	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp.	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp.	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp.	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp.	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp. Bacillus subtilis	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp. Bacillus subtilis	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp. Bacillus subtilis Bacillus subtilis	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp. Bacillus subtilis Bacillus subtilis Synechocystis sp.	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp. Bacillus subtilis Bacillus subtilis Synechocystis sp.	Pseudomonas syringae pv. tabaci Methanococcus jannaschii Escherichia coli Synechocystis sp. Bacillus subtilis Synechocystis sp. Haemophilus influenzae										
+		-			-			-	_	-																							
A02587 U32830			-	U51868	U24147	U26428	U47017	U67476		L	D04000	-	+	+ + +											+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	+++++		+++++++++++++++++++++++++++++++++++++++		+++++++++++++++++++++++++++++++++++++++		
		A0	U3	US	UZ	U2	U4		OO 00	4	Do	Do	ದ	De	De	D0	D0	D2	80 20 20	D2	D2 D2 D9												
nomotogy	putative	bioA gene product	dethiobiotin synthase (bioD)	L-alanine - pimelyl CoA ligase	biotin sythase	tryptophan hydroxylase	dihydrodipicolinate reductase	aspartate-semialdehyde dehydrogenase	aspartokinase III		dihydrodipicolinate synthase	dihydrodipicolinate synthase putative	dihydrodipicolinate synthase putative	dihydrodipicolinate synthase putative putative putative	dihydrodipicolinate synthase putative putative putative putative	dihydrodipicolinate synthase putative putative putative putative putative	dihydrodipicolinate synthase putative putative putative putative putative putative	dihydrodipicolinate synthase putative putative putative putative putative putative untative	dihydrodipicolinate synthase putative putative putative putative putative putative putative putative	dihydrodipicolinate synthase putative putative putative putative putative putative unknown putative high level kasgamycin resistance	dihydrodipicolinate synthase putative putative putative putative putative putative unknown putative unknown putative high level kasgamycin resistance hypothetical protein	dihydrodipicolinate synthase putative putative putative putative putative putative unknown putative high level kasgamycin resistance hypothetical protein putative	dihydrodipicolinate synthase putative putative putative putative putative putative putative putative high level kasgamycin resistance hypothetical protein putative exonuclease VII, large subunit (xseA)	dihydrodipicolinate synthase putative putative putative putative putative putative putative putative high level kasgamycin resistance hypothetical protein putative cxonuclease VII, large subunit (xseA) Integrase/recombinase	dihydrodipicolinate synthase putative putative putative putative putative putative putative unknown putative high level kasgamycin resistance hypothetical protein putative exonuclease VII, large subunit (xseA) Integrase/recombinase	dihydrodipicolinate synthase putative putative putative putative putative putative unknown putative high level kasgamycin resistance hypothetical protein putative exonuclease VII, large subunit (xseA) Integrase/recombinase putative putative	dihydrodipicolinate synthase putative putative putative putative putative putative putative unknown putative high level kasgamycin resistance hypothetical protein putative exonuclease VII, large subunit (xseA) Integrase/recombinase putative putative controlles of the controlled of	dihydrodipicolinate synthase putative putative putative putative putative putative unknown putative high level kasgamycin resistance hypothetical protein putative exonuclease VII, large subunit (xseA) Integrase/recombinase putative putative putative putative Putative Putative Putative Putative PTS PEP Phosphotransferase	dihydrodipicolinate synthase putative putative putative putative putative putative putative unknown putative high level kasgamycin resistance hypothetical protein putative exonuclease VII, large subunit (xseA) Integrase/recombinase putative	dihydrodipicolinate synthase putative putative putative putative putative putative putative unknown putative high level kasgamycin resistance hypothetical protein putative exonuclease VII, large subunit (xseA) Integrase/recombinase putative putative putative putative putative putative putative putative putative STS PEP Phosphotransferase putative STS SEP Phosphotransferase putative STS SEP Phosphotransferase	dihydrodipicolinate synthase putative putative putative putative putative putative unknown putative high level kasgamycin resistance hypothetical protein putative exonuclease VII, large subunit (xseA) Integrase/recombinase putative putative PTS PEP Phosphotransferase putative O-Sialoglycoprotein Endopeptidase putative Sms Protein putative Sms Protein	dihydrodipicolinate synthase putative putative putative putative putative putative putative unknown putative high level kasgamycin resistance high level kasgamycin resistance high level kasgamycin fixseA) Integrase/recombinase putative putative O-Sialoglycoprotein Endopeptidase PTS PEP Phosphotransferase putative Sms Protein putative putative putative putative	dihydrodipicolinate synthase putative putative putative putative putative putative unknown putative high level kasgamycin resistance hypothetical protein putative exonuclease VII, large subunit (xseA) Integrase/recombinase putative putative PTS PEP Phosphotransferase putative Sms Protein putative Sms Protein putative putative
	1204180 pt	-	1206086 de	1206724 L	1207851 bi	1209742 tr	1211494 di	1212754 as		1214858 di		H													118 117 117 118 118 119 119 119 119	118 118 119 110 111 111 118 118 118 118 118 118 118	11 10 10 11 11 11 11 11 11	11 10 10 10 11 11 11 11 11 11 11 11 11 1	11 11 11 11 11 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	11 11 11 11 11 11 11 11 11 11 11 11 11	118 881 110 111 111 111 111 111 111 111	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 18 88 88 88 11 17 17 17 17 17 17 17 17 17 17 17 17
	1205028	1206392	1206742	1207872	1208852	1210518	1210703	1211870	1212742	1214046		1215551	1215551 1216493	1215551 1216493 1217183	1215551 1216493 1217183 1220068	1215551 1216493 1217183 1220068 1219710	1215551 1216493 1217183 1220068 1219710 1220630	1215551 1216493 1217183 1220068 1219710 1220630	1215551 1216493 1217183 1220068 1219710 1220630 1221645	1215551 1216493 1217183 1220068 1219710 1220630 1221645 1223894	1215551 1216493 1217183 1220068 1219710 1220630 1221645 1223894 1225000	1215551 1216493 1217183 1220068 1219710 1220630 1221645 1223894 1223894 1223894 1225000	1215551 1216493 1217183 1220068 1219710 1220630 1221645 1223894 1223894 1225000 1227810 1226528	1215551 1216493 1217183 1220068 1219710 1220630 1221645 1223894 1223894 1225500 1227810 1226528 1229972	51 68 68 68 10 10 10 72 72	22 28 28 30 10 28 27 27 28 27 27 28 27 27 27 27 27 27 27 27 27 27 27 27 27	51 68 83 68 83 10 10 72 72	51 68 83 68 68 72 72 72	51 668 688 30 10 10 10 72 72	51 68 68 68 10 10 10 72 72 72	51 68 68 68 10 10 10 72 72 72	228 283 30 288 30 288 30 28 27 27 28 28 30 30 30 30 30 30 30 30 30 30 30 30 30	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	ORF1116	ORF1117	ORF1118	ORF1119	ORF1120	ORF1121	ORF1122	ORF1123	ORF1124	ORF1125		ORF1126	ORF1126 ORF1127	ORF1126 ORF1127 ORF1128	DRF1126 DRF1127 DRF1128 DRF1129	ORF1126 ORF1127 ORF1128 ORF1129 ORF1130	ORF1126 ORF1127 ORF1128 ORF1129 ORF1131	ORF1126 ORF1127 ORF1128 ORF1129 ORF1130 ORF1131	ORF1126 ORF1127 ORF1128 ORF1129 ORF1131 ORF1131	ORF1126 ORF1127 ORF1128 ORF1129 ORF1130 ORF1131 ORF1133	ORF1126 ORF1127 ORF1129 ORF1130 ORF1131 ORF1133 ORF1133 ORF1133	ORF1126 ORF1127 ORF1128 ORF1129 ORF1130 ORF1131 ORF1133 ORF1133	ORF1126 ORF1127 ORF1129 ORF1129 ORF1131 ORF1131 ORF1133 ORF1135 ORF1135 ORF1135								ORF1126 ORF1127 ORF1129 ORF1130 ORF1131 ORF1134 ORF1136 ORF1136 ORF1138 ORF1139 ORF1140 ORF1141 ORF1142 ORF1143		

Ema	Homology	a -	Species	Score
159346	S16 Ribosomal Protein	AE001277	Chlamydia trachomatis	467
168979	putative			
69452	putative			
171504	Cationic Amino Acid Transporter	AE001278	Chlamydia trachomatis	262
171775	Cationic Amino Acid Transporter	AE001278	Chlamydia trachomatis	533
194045	putative			
196075	S/T Protein Kinase	AE001288	Chlamydia trachomatis	536
210145	KDO-transferase	X80061	Chlamydia pneumoniae	856
210708	putative			
215088	putative			
218246	putative			
218701	putative			
223525	IMP dehydrogenase	U13372	Borrelia burgdorferi	270
223999	putative			
228407	putative	,		
235334	(Methylase)	AE001287	Chlamydia trachomatis	331
253021	Oligopeptide Permease	AE001293	Chlamydia trachomatis	838
258912	Dicarboxylate Translocator	AE001294	Chlamydia trachomatis	606
261567	putative			
268878	hypothetical protein	AE001287	Chlamydia trachomatis	556
268881	putative			
271538	putative			
272346	putative			
274550	putative			
275314	Disulfide bond Oxidoreductase	AE001291	Chlamydia trachomatis	519
276927	hypothetical protein	AE001291	Chlamydia trachomatis	249
277861	hypothetical protein	AE001291	Chlamydia trachomatis	256
287909	putative			
289789	putative			
291225	putative			
291860	adenylate cyclase	AE001286	Chlamydia trachomatis	388
311622	putative			
328384	putative			

		}	a .	Species	Score	%I
	338289	sodium-dependent transporter	AF017105	Chlamvdia psittaci	1112	5
4/0 9/2 8/2 0 - 0/2 4/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3	364369	Prolipoprotein Diacylglycerol Transferase	AE001298	Chlamydia trachomatis	300	24
292822222222222222222222222222222222222	390135	hypothetical protein	AE001282	Chlamydia trachomatis	75	33
95 m a a a a a a a a a a a a a a a a a a	394343	ABC superfamily ATPase	AE001282	Chlamydia trachomatis	473	5
	407621	putative				3
	410708	putative				
	427988	putative				
	428486	putative				
	437246	hypothetical protein	AE001279	Chlamydia trachomatis	199	18
	461159	putative			100	
	477313	hypothetical protein	AE001300	Chlamydia trachomatis	300	C
	487001	putative				3
	487534	Glycine Cleavage System H Protein	AE001300	Chlamydia trachomatis	221	29
	499017	hypothetical protein	AE001275	Chlamydia trachomatis	206	32
	500466	putative				
	572344	putative				T
	572131	putative				
	587915	hypothetical protein	AE001312	Chlamydia trachomatis	256	3
	206009	(Metalloenzyme)	AE001316	Chlamydia trachomatis	314	1 3
	608895	putative				;
+++	614755	hypothetical protein	AE001317	Chlamydia trachomatis	475	46
+	615152	putative				
1	638831	ABC Transporter ATPase	AE001315	Chlamydia trachomatis	614	19
	639094	(Metal Transport Protein)	AE001315	Chlamydia trachomatis	265	3
	639636	(Metal Transport Protein)	AE001315	Chlamydia trachomatis	687	69
	648236	hypothetical protein	AE001317	Chlamydia trachomatis	139	38
+	679469	phosphohydrolase	AE001320	Chlamydia trachomatis	995	63
	688732	hypothetical protein	AE001320	Chlamydia trachomatis	366	43
	696563	methyltransferase	AE001321	Chlamydia trachomatis	369	49
	708588	Glucose-1-P Adenyltransferase	AE001322	Chlamydia trachomatis	507	83
	710089	putative				
+	717737	Glycerol-3-P Phosphatidyltransferase	AE001323	Chlamydia trachomatis	573	99
ORF1214 737828	737565	S19 Ribosomal Protein	AE001323	Chlamydia trachomatis	439	94

ORF	Begin	End	Homology	Œ	Species	Score	%I
ORF1215	779502	780257	hypothetical protein	AE001322	Chlamydia trachomatis	476	48
ORF1216	806310	805864	hypothetical protein	AE001337	Chlamydia trachomatis	512	29
ORF1217	820931	820707	putative			2,50	5
ORF1218	837696	960688	Exodeoxyribonuclease V, Gamma	AE001334	Chlamydia trachomatis	/8/	44
ORF1219	883307	883549	putative				
ORF1220	892010	891726	putative				T
ORF1221	893277	893564	putative			7,50	15
ORF1222	936998	937225	Gen. Secretion Protein E	AE001327	Chlamydia trachomatis	967	à
ORF1223	946865	947419	putative			,,,	T
ORF1224	975187	975411	SWF/SNF family helicase	AE001341	Chlamydia trachomatis	363	श्र
ORF1225	985882	985517	hypothetical protein	AE001342	Chlamydia trachomatis	166	33
ORF1226	987713	987180	hypothetical protein	AE001342	Chlamydia trachomatis	447	59
ORF1227	988215	987733	Flagellar M-Ring Protein	AE001342	Chlamydia trachomatis	304	4
ORF1228	988754	988530	Flagellar M-Ring Protein	AE001342	Chlamydia trachomatis	92	36
ORF1229	992542	992841	hypothetical protein	AE001343	Chlamydia trachomatis	112	33
OR F1230	992759	2903067	hypothetical protein	AE001343	Chlamydia trachomatis	100	32
ORF1731	1004247	1004528	D-Ala/Gly Permease	AE001344	Chlamydia trachomatis	283	4
ORF1232	1015013	1014294	235aa long hypothetical protein	AB009472	Pyrococcus horikoshii	104	54
ORF1233	1056147	1056545	putative				
ORF1234	1077682	1078035	predicted disulfide bond isomerase	AE001351	Chlamydia trachomatis	233	46
ORF1235	1088121	1088381	putative				
ORF1236	1098430	1098852	Predicted Kinase	AE001352	Chlamydia trachomatis	384	59
ORF1237	1098798	1099319	Predicted Kinase	AE001352	Chlamydia trachomatis	322	45
ORF1238	1123198	1123515	Transport Permease	AE001354	Chlamydia trachomatis	313	72
ORF1239	1123606	1124256	Tyrosine Transport	AE001354	Chlamydia trachomatis	577	28
ORF1240	1124453	1124797	Tyrosine Transport	AE001354	Chlamydia trachomatis	323	50
ORF1241	. 1129253	1129567	putative				
ORF1242	1164947	1164474	hypothetical protein	AE001357	Chlamydia trachomatis	412	26
ORF1243	1170457	1170053	hypothetical protein	AE001358	Chlamydia trachomatis	283	29
ORF1244	1172342	1171863	ABC transporter permease	AE001358	Chlamydia trachomatis	457	55
ORF1245	1192155	1192835	putative				T
ORF1246	1192759	1192992	putative				
ORF1247	1193861	1194142	putative				

End Homology
1193779 (D-Amino Acid Dehydrogenase)
1209053 conserved hypothetical protein
1215419 putative
\dashv
1228080 xseB
26222 putative
70352 putative
178393 putative
208349 putative
208929 putative
210639 putative
299452 putative
351717 putative
419949 Flagellar Secretion Protein
553381 putative
556807 putative
803650 putative
849306 putative
913275 putative
930360 putative
1000002 putative

ORF	Begin	End	Homology	CII	Species	Score 1%	%I
							T
ORF1281	1010291	1010037	putative			3	1
ORF1282	1011128	1010793	106aa long hypothetical protein	AB009472	Pyrococcus horikoshii	159	2
ORF1283	1012924	1012694	putative				T
ORF1284	1028659	1028913	putative				
ORF1285	1086481	1086762	putative				
ORF1286	1118658	1118879	Phosphoglucomutase	AE001354	Chlamydia trachomatis	291	\$
ORF1287	1170098	1169835	hypothetical protein	AE001358	Chlamydia trachomatis	187	23
ORF1288	1180828	1181184	putative				
ORF1289	1182658	1183035	putative				
ORF1290	1195076	1194795	putative				
ORF1291	1195890	1196183	putative				

Table 2

ntial start	end po	begin	ORF Nos
42	794	42	2
1261	1614	1258	3
1807	2418	1807	4
3393	2491	3393	5
3639	4067	3639	6
5649	4270	5649	7
7463	6012	7463	8
8051	8962	8051	9
9138	9959	9129	10
10639	10361	10687	11
10927	11232	10927	12
11246	12727	11246	. 13
12691	14190	12691	14
14484	17249	14484	15
16036	15770	16039	16
17845	20853	17845	17
21137	22042	21137	18
22046	23476	22046	19
23681	26110	23681	20
26109	25861	26109	21
26241	26978	26241	22
26960	27754	26960	23
27747	28577	27747	24
28950	29492	28887	25
29432	30028	29432	26
30024	31472	30024	27
31758	32288	31758	28
32201	33991	32201	29
33852	34541	33852	30
34783	36063	34783	31
36009	37529	36009	32
37881	39362	37881	33
39418	39161	39418	34

ORF Nos	begin	end	potential start
35	39366	40715	39366
36	43076	41094	43076
37	43800	43066	43800
38	44828	43785	44768
39	45340	44753	45340
40	45752	45372	45752
41	46996	45701	46996
42	47961	47569	47961
43	48960	48040	48960
44	51452	50133	51452
45	52606	51335	52606
46	53684	53319	53684
. 47	54195	53746	54195
48	55278	56453	55278
49	56493	57266	56493
50	57297	58526	57297
51	59851	58565	59851
52	61495	59924	61495
53	61324	62151	61324
54	62132	62470	62132
5.5	62474	63733	62474
50	63881	64186	63881
5	7 64611	64318	64611
5	65485	64673	65485
5	65999	65301	65999
6	0 66244	67281	6624
6	1 67265	67699	67265
6	2 67703	68539	67760
6	3 68805	70736	6880.
6	4 69172	6883	6917
6	5 70642	71143	7064
6	6 7132:	72029	7132
6	7206	7363	7 7206
6	7406	7617:	7406

ORF Nos	begin	end	potential start
69	78351	77680	78351
70	79356	78355	79356
71	79983	79693	79983
72	80441	79938	80441
73	80475	80969	80475
74	81296	83080	81332
75	83291	83932	83291
76	8400 5	84769	84005
77	84975	85244	84975
78	85123	85425	85123
79	85397	85903	85397
80	85909	86583	85909
81	86626	88065	86626
82	89257	91026	89257
83	91291	93030	91291
84	93295	94086	93295
85	95285	94707	95279
86	95667	96557	95667
87	96317	97456	96317
88	98435	97968	98435
89	99460	98426	99460
90	100144	101325	100144
91	101457	101720	101457
92	101704	102273	101704
93	102356	102805	102356
94	102835	103530	102835
. 95	103549	104058	103549
96	104096	104491	104096
97	104601	108386	104601
98	108401	112054	108401
99	112033	112590	112033
100		113682	112672
101	113726		113726
102	114711	114136	114711

			139
ORF Nos	begin	end	potential start
103	115267	115755	115267
104	115911	116543	115911
105	116736	118055	116778
106	117968	118522	117968
107	118530	119843	118530
108	119816	120457	119816
109	120451	122430	120451
110	122504	122950	122504
111	123528	126347	123528
112	126332	129166	126332
113	134690	129213	134690
114	134925	136382	134931
. 115	137870	136482	137867
116	137899	138240	137899
117	138239	137928	138239
118	139558	138257	139558
119	140352	139516	140352
120	140498	141841	140498
121	141855	142658	141855
122	144258	143050	144258
123	145258	144494	145258
124	145454	146749	145454
125	147318	146767	147318
126	148261	147677	148261
127	149029	152157	149029
128	154108	152201	154108
129	155135	154308	155135
130	155141	155467	155141
131	155703	156779	155703
132	156748	157635	156748
133	157653	158996	157653
134	159363	159986	159363
135	159880	160446	159880
136	160477	160839	160477
	<u> </u>		

ORF Nos	begin	end	potential start
137	160898	161539	160898
138	161527	162153	161527
139	162144	162443	162144
140	162437	164098	162437
141	165451	164228	165451
142	166349	165411	166349
143	166949	168442	166949
144	169416	171029	169416
145	170857	171459	170857
146	172652	173428	172652
147	174626	173439	174626
148	174816	175613	174816
149	175598	175954	175598
150	175958	176935	175958
151	177708	176938	177708
152	177128	177376	177128
153	179472	177841	179472
154	179822	179517	179822
155	181793	179943	181793
156	182628	181876	182628
157	184420	183074	184420
158	184988	184467	184988
159	185483	185112	185483
160	185902	185483	185902
161	186174	185839	186174
162	187720	186587	187720
163	188318	190933	188318
164	191090	191635	191090
165	191547	192743	191547
166	192969	193469	192969
167	194044	193610	194044
168	194196	195809	194196
169	196088	198073	196088
170	198132	199454	198132

ORF Nos	begin	end	potential start
171	199351	202818	199351
172	204552	202999	204552
173	205648	204692	205639
174	205807	207327	205807
175	207182	207775	207182
176	207779	208267	207779
177	208267	209577	208267
178	211807	211271	211807
179	212188	211844	212188
180	214079	212448	214079
181	214907	214083	214907
182	216154	215429	216154
- 183	216115	216678	216115
184	216728	217282	216728
185	217267	217866	217267
186	218593	218261	218590
187	219821	218994	219821
188	221382	220309	221382
189	222719	221433	222719
190	223521	222724	223521
191	224499	225008	224499
192	225140	225559	225140
193	225555	226802	225555
194	227800	226892	227743
195	228335	228072	228335
196	229251	228643	229251
197	230983	229622	230983
198	231483	230983	231483
199	232063	231509	232063
200	232739	232053	232739
20	233166	234356	233166
202	2 233518	233165	233518
200	3 234536	235186	234536
20-	4 235379	236689	235379

E TONO TONO TONO	Land Articles		172
ORF Nos	begin	end	potential start
205			236689
206		238345	237521
207	238281	238973	238281
208	238871	240115	238871
209	240191	241564	240191
210	242281	241604	242281
211	242933	242274	242933
212	243416	242976	243416
213	243500	244531	243500
214	244480	246021	244480
215	246330	247811	246330
216	247831	249174	247870
217	249437	251038	249455
218	251325	252212	251325
219	253156	254007	253156
220	253974	254852	253974
221	255258	256094	255258
222	256640	257455	256640
223	257502	258239	257502
224	257869	257501	257869
225	259248	260897	259248
226	262753	261788	262753
227	263059	262757	263059
228	264375	263182	264375
229	265985	264747	265985
230	266637	266059	266637
231	267338	266538	267338
232	267922	267473	267922
233	269647	270771	269647
234	272777	273145	272777
235	273253	273636	273253
236	273705	273977	273705
237	276016	275717	276016
238	276439	276020	276418

			143
ORF Nos	begin	end	potential start
239	276792	277253	276792
240	277318	277599	277318
241	278578	277877	278578
242	279258	278554	279258
243	280435	279533	280435
244	281547	280849	281547
245	281696	282325	281717
246	282459	284069	282459
247	284056	284517	284056
248	284606	285775	284606
249	285592	285987	285592
250	286179	286976	286179
. 251	287583	287002	287583
. 252	287951	287451	287951
253	288499	288816	288499
254	289674	288505	289674
255	288839	289213	288839
256	289970	290254	289970
257	291931	292803	291931
258	293258	292755	293258
259	293718	293272	293718
260	294630	293953	294630
261	296153	294636	296153
262	294817	295068	294817
263	296354	297862	296354
264	298415	297879	298415
265	298777	298253	298777
266	299572	298781	299572
267	300487	299633	300487
268	301586	300702	301568
269	302440	301571	302440
270	302838	302437	302838
271	303335	302745	303335
272	304394	303852	304394

ORF Nos	begin	end	potential start
273	304606	305223	304606
274	305394	306236	305394
275	306501	307439	306501
276	308033	307458	308033
277	308924	308037	308924
278	309485	310180	309485
279	310426	311214	310426
280	311597	311253	311504
281	312772	311780	312772
282	313425	312772	313425
283	313646	313377	313646
284	313937	314665	313937
285	315576	314755	315576
286	316157	315531	316157
287	318657	316156	318657
288	321042	318676	321042
289	321445	321098	321445
290	322309	321710	322309
291	323190	322366	323181
292	323843	323181	323843
293	324878	323856	324878
294	325340	326410	325340
295	326433	327836	326433
296	328465	327839	328465
297	329360	328857	329360
298	330907	329357	330907
299	332455	330956	332455
300	334536	332395	334536
301	<u> </u>		
302	<u> </u>		
303		<u> </u>	
304		<u> </u>	
305	1		
306	340247	342967	340247

ORF Nos	begin	end	potential start
307	343385	343810	343385
308	344171	343935	344171
309	345082	344330	345073
310	346005	345082	346005
311	346784	346437	346784
312	347029	346715	347029
313	347034	347723	347034
314	348075	350459	348075
315	350598	351071	350598
316	351075	352175	351096
317	353291	352230	353267
318	353442	354467	353442
. 319	354451	354933	354451
320	355000	355449	355000
321	355448	356743	355448
322	355953	355642	355953
323	359310	356827	359310
324	359120	359377	359120
325	359525	359908	359525
326	361290	359947	361290
327	363785	361362	363746
328	364496	363888	364496
329	364832	365290	364832
330	365304	365669	365304
331	366599	365667	366599
332	367291	369030	367291
333	369134	369808	369134
334	369917	370438	369917
335	370365		370365
336	372557	1	
337	373020	<u> </u>	
338	373467		
339	374176		<u> </u>
340	375676	375083	375676

			140
ORF Nos	begin	end	potential start
341	376173	375634	376173
342	376564	377643	376564
343	377956	379773	377956
344	379781	380425	379805
345	380281	381000	380281
346	381008	381460	381008
347	381460	383037	381460
348	383257	383523	383257
349	383553	385304	383553
350	385397	386458	385400
351	387242	386514	387242
352	388764	387013	388764
. 353	390120	390932	390120
. 354	390919	391818	390961
355	392379	· 391885	392379
356	392582	392986	392582
357	392776	393684	392776
358	394151	394804	394151
359	394928	395308	394928
360	395259	395990	395259
361	397815	395953	397815
362	398850	397831	398850
363	400085	399099	400085
364	401245	400073	401236
365	401474	401136	401474
366	402199	401423	402199
367	403193	402186	403166
368	403650	404165	403650
369	404343	405914	404343
370	405984	407327	405984
371	407712	408806	407712
372	410439	409075	410439
373	411826	410954	411826
374	412482	414302	412482
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ORF Nos	begin	end	potential start
375	415402	414407	415402
376	415848	415237	415848
377	417131	415866	417131
378	417258	417566	417258
379	418326	417454	418326
380	420057	418426	420057
381	420448	420720	420448
382	420980	421552	420980
383	421556	422029	421556
384	422461	422925	422461
385	423562	424320	423562
386	424250	424591	424250
387	424830	426047	424830
388	426240	427397	426240
389	428841	430703	428841
390	430694	431446	430694
391	431597	432100	431597
392	432165	432779	432165
393	433272	432832	433272
394	433925	433227	433922
395	436678	433934	436678
396	437176	438357	437176
397	440317	438518	440317
398	440001	440345	440001
399	441233	440517	441233
400	440719	441012	440719
401	442192	441230	442192
402	442888	442343	442888
403	442371	442961	442371
404	443578	443003	443578
405	444500	443526	444500
406	444842	444528	444842
407	445009	444743	445009
408	445718	445182	445718

ORF Nos	begin	end	potential start
409	445807	447804	445807
410	448738	447803	448738
411	449628	448618	449628
412	450298	450867	450298
413	450713	451207	450713
414	451211	452452	451211
415	452448	453659	452448
416	454843	453725	454843
417	455608	454865	455608
418	456243	457007	456243
419	457016	457708	457016
420	458368	457979	458368
421	459496	458372	459496
422	459493	460194	459493
423	461446	460355	461446
424	462298	461450	462298
425	462444	463349	462444
426	464241	463342	464241
427	464574	465065	464574
428	465129	465611	465129
429	465571	466317	465571
430	466317	467093	466317
431	466999	467502	466999
432	469691	467715	469691
433	470691	469660	470691
434	472010	470709	472010
435	471545	471799	471545
. 436		4720 45	472359
437		<u> </u>	
438			474889
439			
440			
441	<u> </u>	<u> </u>	
442	479277	479705	479277

	hamm	end	potential start
ORF Nos	begin		
443	480050	481450	480050
444	481469	482053	481469
445	482600	482025	482600
446	482654	484204	482654
447	484211	485170	484211
448	485170	485838	485170
449	485813	486580	485813
450	486976	486638	486976
451	489071	487764	489071
452	489341	489090	489341
453	489958	489152	489958
454	490549	489962	490549
455	491163	490522	491163
456	491396	491112	491396
457	492121	491390	492121
458	492304	494838	492304
459	495943	494822	495943
460	496011	496565	496170
461	496569	497228	496569
462	497358	497834	497358
463	497770	498327	497770
464	499209	499589	499209
465	499520	499792	499520
466	500774	504169	500774
467	504139	504600	504139
468	504865	506877	504865
469	506790	507671	506790
470	507718	510507	507718
471	508325	507912	508325
472	510660	513440	510660
473	514965	513787	514920
474	517347	515419	517347
475	517058	517363	517058
470	5 517798	517277	517798

ORF Nos	begin	end	potential start
477	518200	517847	518200
478	518300	521146	518363
479	521392	522948	521407
480	523244	524809	523322
481	524379	524125	524379
482	524649	526238	524649
483	526265	527104	526268
484	526947	526702	526947
485	526975	528450	526975
486	528408	529199	528408
487	530612	529542	530612
488	531656	530616	531656
489	533974	532067	533974
490	536432	534324	536432
491	537150	536707	537150
492	537928	537080	537928
493	538438	537932	538438
494	538737	538333	538737
495	539594	539127	539594
496	541215	539590	541215
497	542571	541282	542571
498	543014	542457	543014
499	543369	542962	543369
500	543809	546628	543815
501	546619	549525	546619
502	547293	546994	547293
503	549699	550523	549699
504	550490	551551	550490
505	551448	552623	551448
506	552652	555117	552652
507	555029	555493	555029
508	558006	555673	558006
509	. 559694	558162	559694
510	558208	558573	558208

		1	
ORF Nos	begin	end	potential start
511	561692	559899	561692
512	561412	561708	561412
513	563942	561777	563942
514	564969	563950	564969
515	566204	564936	566198
516	567717	566302	567717
517	568526	567708	568526
518	569467	568742	569467
519	571065	569431	571065
520	571828	571118	571783
521	572202	573308	572202
522	573146	575056	573146
- 523	575023	575916	575023
524	577891	576497	577891
525	578914	578204	578914
526	579924	578857	579924
527	580187	579858	580187
528	580017	580406	580017
529	581086	580187	581086
530	581367	581828	581367
531	581678	582367	581678
532	582361	583428	582361
533	584690	583431	584690
534	585237	584950	585237
535	585626	586888	585626
530	586846	587907	586888
537	589049	588180	589049
538	590500	589301	590455
539	590755	592458	590755
540	592526	592903	592526
54	592836	593747	592836
54:	2 593747	594298	593747
54:	3 594331	595947	594331
54	4 595905	596309	595905

ORF Nos	begin	end	potential start
545	596514	597215	596514
546	597184	597957	597184
547	597755	598612	597755
548	598602	599204	598602
549	599373	599939	599373
550	600903	602072	600903
551	602240	602587	602240
552	602637	603272	602637
553	603142	604512	603142
554	604627	605853	604627
555	605790	606620	605790
556	606571	607281	606571
557	609004	607355	609004
558	610906	609932	610906
559	611786	611004	611786
560	612333	611746	612333
561	613897	612341	613897
562	615179	616279	615179
563	616610	617383	616610
564	618796	617810	618796
565	620004	618826	620004
566	619649	619918	619649
567	621265	620021	621265
568	622359	621265	622359
569	623420	622560	623420
570	624297	623335	624297
571	624773	624174	624773
572	625029	625484	625029
573	625488	625883	625488
574	625892	626395	625892
57:	626444	627790	626444
570	627912	628607	627930
57,	7 - 628774	629697	
573	8 629660	631639	629660

otential start	end	begin	ORF Nos
631725	633551	631725	579
633520	636957	633520	580
637232	638098	637232	581
640648	639593	640648	582
640979	640728	640979	583
641327	641007	641327	584
641687	642283	641687	585
643023	642286	643023	586
643330	643076	643330	587
643704	643351	643704	588
645628	643676	645628	589
645756	645538	645783	590
646269	645793	646269	591
646751	646314	646751	592
647848	647045	647848	593
648393	650336	648393	594
651007	650420	- 651016	595
652956	651289	652956	596
653395	653126	653395	597
655740	654193	655740	598
656508	655966	656508	599
658140	657022	658140	600
660216	658525	660216	601
663238	660248	663238	602
664452	663157	664461	603
665735	664635	665735	604
666212	666994	666212	605
666998	667921	666998	606
667909	668568	667909	607
668502	669203	668502	608
669175	670893	669154	609
672226	670853	672226	610
671137	671424	671137	611
672453	673001	672453	612

ORF Nos	begin	end	potential start
613	673072	674721	673072
614	674549	674262	674549
615	675518	674796	675518
616	676083	675499	676083
617	676630	676067	676630
618	677016	676600	677016
619	677647	677015	677647
620	677990	678259	677990
621	679444	680097	679444
622	680097	680897	680097
623	681637	680849	681637
624	681409	682281	681409
625	682453	682821	682453
626	682763	683902	682763
627	684616	683969	684616
628	685169	684534	685169
629	685986	685117	685986
630	686278	687288	686278
631	687483	688151	687483
632	688740	689501	688740
633	690242	689622	690242
634	690470	691126	690470
635	692600	691497	692600
636	692674	695064	692674
637	695049	696032	695064
638	697964	696585	697964
639	699803	698274	699803
640	701926	699788	701926
641	703196	702567	703196
642	704221	703208	704221
643	704240	705289	704240
644	706070	705300	706070
645	706841	706254	706838
646	707596	706811	707596

			155
ORF Nos	begin	end	potential start
647	708666	707677	708666
648	709793	709119	709793
649	711523	710132	711523
650	712236	711523	712236
651	714734	712125	714734
652	715759	714761	715759
653	717538	715886	717538
654	719113	720243	719113
655	720590	722422	720590
656	722406	723056	722406
657	723551	723120	723551
658	724246	723626	724246
. 659	724754	724251	724754
660	725868	724900	725868
661	727115	726270	727115
662	728126	727119	728126
663	728594	728208	728594
664	729614	728604	729614
665	729778	729533	729778
666	730149	729751	730149
667	730539	730174	730539
668	731983	730598	731983
669	732427	731996	732427
670	732917	732423	732917
671	733598	733320	733598
672	733869	733492	733869
673	734298	733900	734298
674	734858	734319	734858
675	735195	734863	735195
676	735578	735342	735578
677	735861	735604	735861
678	736492	736079	736492
679	737192	736524	737192
680	737555	737211	737555

ORF Nos	begin	end	potential start
681	738688	737837	7386 88
682	739048	738713	739048
683	739736	739065	739736
684	740477	739773	74047 7
685	740659	740958	740659
686	741722	740721	741722
687	742789	741827	742789
688	743618	742782	743618
689	744092	743634	744092
690	744604	744107	744604
691	744953	744498	744953
692	746608	744986	746608
693	747085	746621	747085
694	747974	747219	747974
695	748594	748169	748594
696	749145	748573	749145
697	749652	749957	749652
698	750446	749979	750446
699	751219	750446	751219
700	753042	751291	753042
701	754309	753020	754309
702	755120	756175	755120
703	756120	756485	756120
704	756499	760227	756499
705	761217	760297	761178
706	761297	761809	761330
707	761782	762282	761782
708	762260	762895	762299
709	762867	763316	762867
710	763780	763325	763780
711	763861	765168	763861
712	766809	765697	766809
713	768051	766888	768051
714	768566	768321	768566

ORF Nos	begin	end	potential start
715	769342	768551	769342
716	770532	769378	770532
717	771451	770804	771451
718	773058	771847	773058
719	773094	773456	773094
720	774376	773093	774376
721	775123	774380	775123
722	775398	774916	775398
723	775046	776077	775046
724	776070	777041	776070
725	777964	777536	777964
726	778176	777904	778176
. 727	778621	779334	778684
728	781173	780307	781173
729	781526	781116	781526
730	782784	781555	782784
731	7835 7 2	782805	783572
732	785032	783581	785 0 32
733	786412	785360	786412
734	788429	786450	788429
735	788944	788528	788944
736	789758	788901	78 97 58
737	790332	791504	790338
738	791846	792721	791846
739	792724	793569	792724
740	793580	794323	793580
741	794304	794843	794304
742	795217	795732	795217
743	795722	796795	795722
744	798735	797053	798735
745	799823	798681	799823
746	799297	799578	79 929 7
747	801313	799808	801313
748	802453	801332	802453

ORF Nos	begin	end	potential start
749	803299	802457	803299
750	803811	803290	803811
751	805151	803826	805151
752	805860	805156	805860
753	806604	806332	806604
754	806913	806608	806913
755	808222	806903	808222
756	808751	808146	808751
757	809437	808673	809437
758	809939	809454	809939
759	811235	810213	811235
760	811779	813056	811779
761	812890	812516	812890
762	812954	813583	812954
763	813587	815023	813587
764	815420	815746	815420
765	816036	817010	816036
766	817111	817356	817111
767	817791	818609	817797
768	818609	819094	818609
769	819104	819823	819104
770	820722	819826	820722
771	822313	821000	822313
772	823503	822238	823503
773	823678	825612	823678
774	825461	826312	825461
775	827280	826645	827280
776	828604	827171	828604
777	830026	828713	830026
778	831047	830085	831047
779	831725	831051	831725
780	832220	833098	832220
781	833851	833396	833851
782	834068	835039	834068

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ORF Nos	begin	end	potential start
783	835792	835127	835792
784	837624	836116	837624
785	838951	840882	838951
786	840869	842185	840869
787	841989	843455	841989
788	843242	844021	843242
789	845018	843987	844997
790	846174	844990	846174
791	848509	846311	848509
792	848568	849014	848568
793	849082	850488	849088
794	851512	850574	851512
. 795	852064	852447	852064
796	852398	853690	852398
797	855118	854243	855118
798	855751	855128	855751
799	856551	855829	856551
800	856730	858556	856730
801	858717	859601	858717
802	859591	860205	859591
803	861132	860284	861132
804	861426	861163	861426
805	861701	862921	861701
806	863026	864798	863026
807	864831	865256	864831
808	865226	866581	865226
809	866562	867119	866562
810	867025	867816	867025
811	867820	868497	867820
812	869743	868661	869743
813	870633	870094	870633
814	871929	870646	871929
815	872538	872086	872538
816	873908	872517	873908

ORF Nos	begin	- end	potential start
817	874281	874670	874281
818	874582	875286	874582
819	877857	875377	877857
820	878446	879255	878446
821	880635	879268	880635
822	882524	880593	882524
823	882612	883319	882612
824	884155	883538	884155
825	884340	885611	884343
826	885722	887302	885722
827	887587	888153	887587
828	888627	888220	888627
. 829	889330	888716	889330
830	889898	889323	889898
831	891190	889898	891190
832	891828	891247	891828
833	892421	892017	892421
834	893116	892421	893116
835	892521	892925	892521
836	893392	895419	893392
837	895745	896527	895745
838	896668	897558	896668
839	897565	899442	897565
840	899420	900229	899420
841	903230	900237	903230
842	905081	903234	905081
843	906931	905045	906931
844	907248	907832	907299
845	907784	908128	907784
846	908132	908677	908132
847	908589	909320	908589
848	909405	911465	909405
849	911677	912360	911725
850	912303	912821	912303

ORF Nos	begin	end	potential start
851	912937	913983	912937
852	915128	914067	915128
853	916658	915303	916658
854	915627	915376	915627
855	917707	916853	917707
856	918837	917722	918837
857	919868	918837	919868
858	920434	919880	920434
859	921187	920438	921187
860	921959	921195	921959
861	923773	921995	923773
862	922146	922415	922146
_ 863	923943	923674	923943
864	9 2407 7	925006	924077
865	925436	925083	925436
866	926524	925349	926524
867	927920	926433	927920
868	928319	927951	928319
869	928963	928334	928963
870	929248	930987	929248
871	930995	932059	930995
872	932121	933515	932175
873	932881	932513	932881
874	933485	935746	933485
875	935724	937082	935724
876	937229	938410	937229
877	938281	938805	938281
878	938809	939255	938824
879	939165	939782	939165
880	939760	940791	939790
881	940822	941106	940822
882	940977	941351	940977
883	942537	941623	942429
884	942784	942500	942763

ORF Nos	begin	end	potential start
885	943149	942799	943149
886	943799	943029	943799
887	944055	943732	944055
888	944413	943994	944404
889	945395	944556	945395
890	945853	945389	945853
891	946392	945751	946392
892	947410	948081	947431
893	949871	948915	949871
894	951058	949868	951058
895	951249	950959	951249
896	951664	952134	951664
. 897	952674	952165	952674
898	953491	952589	953491
899	955324	953495	955324
900	955823	955281	955823
901	957082	955847	957082
902	957902	957270	957902
903	959231	957906	959231
904	959376	960284	959376
905	960266	961669	960347
906	961856	964765	961856
907	966855	965395	966855
908	968204	966975	968204
909	968791	968237	968791
910	969498	968731	969498
911	969858	969511	969858
912	970118	969762	970118
913	970593	970300	970593
914	971261	970542	971261
915	971680	971123	971680
916	971876	975100	971876
917.	975419	976516	975419
918	976584	978320	976584

ORF Nos	begin	end	potential start
919	977680	977231	977680
920	978399	980738	978399
921	980756	981928	980756
922	982974	981931	982962
923	984120	983119	984120
924	985502	984120	985502
925	987180	985882	987180
926	987172	987444	987172
927	989846	989049	989846
928	991048	989846	991048
929	991638	990955	991638
930	991794	992498	991794
931	993619	993041	993619
932	993530	994792	993548
933	995970	994795	995970
934	996857	995739	996857
935	997603	996782	997603
936	998969	997572	998969
937	998896	1000023	998896
938	1000087	1001340	1000087
.939	1001357	1001818	1001357
940	1003288	1001873	1003288
941	1003487	1004146	1003496
942	1004485	1005639	1004689
943	1005643	1005972	1005643
944	1006784	1006116	1006784
945	1007563	1006769	1007563
946	1009226	1007568	1009226
947	1009989	1009336	1009989
948	1015852	1016337	1015852
949	1016561	1016181	1016561
950	1016297	1017532	1016297
951	1016802	1016452	1016802
952	1018993	1017701	1018993

ORF Nos	begin	end	potential start
953	1019454	1019137	1019454
954	1020764	1019562	1020764
955	1021405	1021037	1021405
956	1021821	1024286	1021821
957	1024697	1024248	1024697
958	1025569	1024508	1025551
959	1026969	1025590	1026969
960	1027789	1026947	1027789
961	1031199	1027945	1031199
962	1031717	1031172	1031717
963	1033057	1031612	1033057
964	1033425	1033039	1033425
965	1033784	1033200	1033784
966	1033963	1036038	1033963
967	1036945	1036010	1036945
968	1037110	1037679	1037110
969	1037696	1037944	1037696
970	1038916	1037975	1038916
971	1040582	1039026	1040582
972	1040997	1042337	1040997
973	1042357	1043403	1042357
974	1043367	1044623	1043367
975	1044607	1045362	1044607
976	1045384	1046538	1045384
977	1046447	1047517	1046447
978	1047521	1049956	1047521
979	1050611	1050036	1050611
980	1050925	1050566	1050925
981	1051728	1051090	1051728
982	1051743	1052063	1051743
983	1052101	1053126	1052101
984	1054201	1053107	1054201
985	* .		
986	1055483	1055908	1055483

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ORF Nos	begin	end	potential start
987	1056609	1056965	1056609
988	1056961	1058232	1056985
989	1058238	1058687	1058238
990	1059371	1058727	1059371
991	1059526	1060578	1059526
992	1061553	1060579	1061553
993	1061674	1062411	1061674
994	1062377	1064077	1062377
995	1064116	1065243	1064116
996	1067451	1065178	1067451
997	1068065	1067376	1068065
998	1068209	1068706	1068230
- 999	1069958	1068819	1069958
1000	1071163	1070033	1071163
1001	1072438	1071332	1072438
1002	1072997	1073476	1072997
1003	1074239	1075864	1074239
1004	1076790	1075867	1076790
1005	1077268	1076573	1077268
1006	1077999	1078724	1077999
1007	1079088	1078672	1079088
1008	1079642	1079944	1079642
1009	1080501	1079995	1080468
1010	1080775	1081341	1080775
1011	1083158	1081350	1083158
1012	1084677	1083235	1084677
1013	1085648	1084632	1085648
1014	1086117	1086737	1086117
1015	1086692	1087897	1086692
1016	1088646	1089005	1088646
1017	1089146	1089805	1089146
1018	1092931	1089890	1092931
1019	1093179	1092889	1093179
1020	1093584	1094204	1093584
<u> </u>		<u></u>	

ORF Nos	begin	end	potential start
1021	1095619	1094192	1095619
1021	1096074	1096628	1096074
1023	1096633	1097082	1096633
1023	1090033	1097682	1090033
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1025	1097622	1097867	1097622
1026	1097886	1098392	
1027	1099521	1099279	1099521
1028	1099689	1101053	1099704
1029	1102192	1101107	1102192
1030	1104950	1102116	1104950
1031	1106508	1104946	1106508
1032	1106722	1107249	1106722
1033	1107463	1108101	1107463
1034	1108041	1108421	1108041
1035	1108520	1113370	1108520
1036	1114958	1113447	1114958
1037	1116915	1115071	1116915
1038	1118183	1116894	1118183
1039	1118846	1120030	1118846
1040	1120040	1120522	1120040
1041	1120510	1121430	1120510
1042	1121321	1121866	1121321
1043	1122123	1122899	1122123
1044	1124842	1125564	1124842
1045	1126526	1125579	1126526
1046	1126519	1127676	1126519
1047	1127672	1128571	1127672
1048	1130230	1131336	1130230
1049	1131480	1132553	1131480
1050	1132830	1133843	1132830
1051	1134121	1134855	1134121
1052	1134642	1135592	1134642
1053	1135964	1135653	1135964
1054	1137132	1135954	1137132
L	<u> </u>	1	L

ORF Nos	begin	end	potential start
1055	1137169	1140102	1137169
1056	1141365	1140112	1141344
1057	1142150	1141356	1142150
1058	1142520	1145660	1142520
1059	1145627	1146721	1145627
1060	1146862	1147545	1146862
1061	1147666	1148190	1147666
1062	1148514	1148224	1148514
1063	1149136	1148348	1149136
1064	1149702	1149166	1149702
1065	1150031	1150591	1150031
1066	1150785	1151147	1150785
- 1067	1151165	1152181	1151165
_ 1068	1152522	1154591	1152522
1069	1155666	1154566	1155666
1070	1156743	1155670	1156740
1071	1156859	1157815	1156859
1072	1157982	1160735	1157982
1073	1162620	1160917	1162620
1074	1162970	1162590	1162970
1075	1163532	1164020	1163532
1076	1163995	1164294	1163995
1077	1165569	1165030	1165569
1078	1166108	1165566	1166108
1079	1166644	1166141	1166644
1080	1167055	1168374	1167055
1081	1169218	1168337	1169218
1082	1169823	1169218	1169823
1083	1171324	1170572	1171324
1084	1172085	1171177	1172085
1085	1172394	1173773	1172394
1086	1175209	1173881	1175209
1087	1175555	1175127	1175360
1088	1175778	1177043	1175778

ORF Nos	begin	end	potential start
1089	1177177	1179048	1177177
1090	1179156	1180085	1179156
1091	1180045	1180779	1180045
1092	1181942	1180788	1181942
1093	1182296	1181961	1182296
1094	1183844	1182300	1183844
1095	1184420	1183848	1184420
1096	1185382	1184366	1185382
1097	1185858	1185226	1185858
1098	1186164	1186481	1186185
1099	1187386	1186484	1187386
1100	1187370	1189028	1187370
1101	1189321	1190889	1189321
1102	1191142	1192146	1191142
1103	1191974	1191729	1191974
1104	1193815	1192991	1193815
1105	1195702	1194248	1195702
1106	1196303	1195716	1196303
. 1107	1196831	1196337	1196831
1108	1197807	1196746	1197651
1109	1198740	1197883	1198668
1110	1200232	1198721	1200232
1111	1201286	1200135	1201286
1112	1202386	1201259	1202350
1113	1202901	1202350	1202901
1114	1204162	1202816	1204162
1115	1203177	1203464	1203177
1116	1205028	1204180	1205028
1117	1206392	1204878	1206392
1118	1206742	1206086	1206742
1119	1207872	1206724	1207872
1120	1208852	1207851	1208852
1121	1210518	1209742	1210518
1122	1210703	1211494	1210703

		109			
ORF Nos	begin	end	potential start		
1123	1211870	1212754	1211870		
1124	1212742	1214064	1212742		
1125	1214046	1214858	1214046		
1126	1215551	1216318	1215551		
1127	1216493	1216849	1216493		
1128	1217183	1219612	1217183		
1129	1220068	1219673	1220068		
1130	1219710	1220669	1219710		
1131	1220630	1221376	1220630		
1132	1221645	1223681	1221645		
1133	1223894	1224988	1223900		
1134	1225000	1225830	1225000		
- 1135	1227810	1225879	1227810		
1136	1226528	1226908	1226528		
1137	1229972	1228311	1229972		
1138	47569	47018	47569		
1139	49980	49117	49980		
1140	53356	52898	53356		
1141	54477	54884	54477		
1142	63753	63998	63753		
1143	77164	77487	77164		
1144	79724	79302	79 7 24		
1145	88721	88951	88721		
1146	94067	94429	94067		
1147	122832	123341	122832		
1148	147536	147234	147536		
1149	158990	159346	158990		
1150	168470	168979	168470		
1151	169183	169452	169204		
1152	171785	171504	171785		
1153	172518	171775	172518		
1154	193599	194045	193599		
1155	195704	196075	195704		
1156	210687	210145	210684		
					

ORF Nos	begin	end	potential start
1157	211100	210708	211100
1158	215420	215088	215420
1159	217914	218246	217914
1160	218925	218701	218925
1161	223785	223525	223785
1162	224271	223999	224271
1163	228691	228407	228691
1164	235050	235334	235050
1165	252308	253021	252308
1166	258280	258912	258280
1167	261325	261567	261325
1168	268195	268878	268195
1169	269447	268881	269447
_ 1170	271263	271538	271263
1171	271957	272346	271957
1172	274176	274550	274176
1173	275736	275314	275736
1174	276490	276927	276490
1175	277577	277861	277577
1176	288163	287909	288163
1177	290130	289789	290130
1178	290989	291225	290989
1179	291372	291860	291372
1180	311239	311622	311239
1181	328665	328384	328665
1182	337348	338289	337348
1183	364764	364369	364764
1184	389623	390135	389623
1185	393729	394343	393729
1186	407379	407621	407379
1187	410944	410708	410944
1188	427632	427988	427632
1189	428172	428486	428172
1190	436761	437246	436761

ORF Nos	begin	end	potential start
1191	460911	461159	460911
1192	477597	477313	477597
1193	487303	487001	487303
1194	487764	487534	487764
1195	498502	499017	498502
1196	499795	500466	499795
1197	571928	572344	571928
1198	572367	572131	572367
1199	588184	587915	588184
1200	600587	600907	600587
1201	609731	608895	609731
1202	614039	614755	614039
. 1203	614823	615152	614823
1204	638244	638831	638244
1205	638819	639094	638819
1206	639073	639636	639073
1207	647901	648236	647901
1208	678510	679469	678510
1209	688178	688732	688178
1210	696045	696563	696045
1211	708998	708588	708998
1212	709808	710089	709808
1213	718240	717737	718240
1214	737828	737565	737828
1215	779502	780257	779502
1216	806310	805864	806310
1217	820931	820707	820931
1218	837696	839096	837696
1219	883307	883549	883307
1220	892010	891726	892010
1221	893277	893564	893277
1222	936998	937225	936998
1223	946865	947419	946865
1224	975187	975411	975187

ORF Nos	begin	end	potential start
1225	985882	985517	985882
1226	987713	987180	987713
1227	988215	987733	988215
1228	988754	988530	988754
1229	992542	992841	992542
1230	992759	993067	992759
1231	1004247	1004528	1004268
1232	1015013	1014294	1015013
1233	1056147	1056545	1056147
1234	1077682	1078035	1077682
1235	1088121	1088381	1088121
1236	1098430	1098852	1098430
1237	1098798	1099319	1098798
1238	1123198	1123515	1123198
1239	1123606	1124256	1123606
1240	1124453	1124797	1124453
1241	1129253	1129567	1129253
1242	1164947	1164474	1164947
1243	1170457	1170053	1170457
1244	1172342	1171863	1172342
1245	1192155	1192835	1192155
1246	1192759	1192992	1192759
1247	1193861	1194142	1193861
1248	1194036	1193779	1194036
1249	1209748	1209053	1209748
1250	1215111	1215419	1215111
1251	1216302	1216538	1216302
1252	1228072	1227818	1228072
1253	1228304	1228080	1228304
1254	26599	26222	26599
1255	27609	27367	27609
1256	67206	66967	67197
1257	70612	70352	70588
1258	132703	132945	132703

ORF Nos	begin	end	potential start
1259	178073	178393	
			178073
1260	208576	208349	208576
1261	209156	208929	209156
1262	209263	209024	209263
1263	210304	210639	210304
1264	299009	299452	299030
1265	352106	351717	352061
1266	420182	419949	420170
1267	553602	553381	553602
1268	556538	556807	556538
1269	594348	593797	594342
1270	595169	594876	595160
1271	662148	662381	662160
1272	706528	706893	706528
1273	803315	803650	803339
1274	849551	849306	849551
1275	913676	913275	913676
1276	927087	926836	927087
1277	930587	930360	930587
1278	986531	986764	986531
1279	996229	996486	996229
1280	1000373	1000002	1000334
1281	1010291	1010037	1010273
1282	1011128	1010793	1011128
1283	1012924	1012694	1012924
1284	1028659	1028913	1028659
1285	1086481	1086762	1086481
1286	1118658	1118879	1118658
1287	1170098	1169835	1170098
1288	1180828	1181184	1180828
1289	1182658	1183035	1182658
1290	1195076	1194795	1195055
1291	1195890	1196183	1195890
1292	189042	188809	189030
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ORF Nos	begin	end	potential start
1293	691250	691567	691250
1294	914544	914780	914556
1295	928525	928833	928579
1296	1040685	1040948	1040712
1297	377646	378068	377646

Table 4

SEQ ID NO (ORF)	Fp	Fd	Вр	Bd
2	1292	1293	3796	3797
3	1294	1295	3798	3799
4	1296	1297	3800	3801
5	1298	1299	3802	3803
6	1300	1301	3804	3805
7	1302	1303	3806	3807
8	1304	1305	3808	3809
9	1306	1307	3810	3811
10	1308	1309	3812	3813
11	1310	1311	3814	3815
12	1312	1313	3816	3817
- 13	1314	1315	3818	3819
14	1316	1317	3820	3821
15	1318	1319	3822	3823
16	1320	1321	3824	3825
17	1322	1323	3826	3827
18	1324	1325	3828	3829
19	1326	1327	3830	3831
20	1328	1329	3832	3833
21	1330	1331	3834	3835
22	1332	1333	3836	3837
23	1334	1335	3838	3839
24	1336	1337	3840	3841
25	1338	1339	3842	3843
26	1340	1341	3844	3845
27	1342	1343	3846	3847
28	1344	1345	3848	3849
29	1346	1347	3850	3851
30	1348	1349	3852	3853
31	1350	1351	3854	3855
32	1352	1353	3856	3857
33	1354	1355	3858	3859
34	1358	1359	3862	3863

		170		
35	1356	1357	3860	3861
36	1360	1361	3864	3865
37	1362	1363	3866	3867
38	1364	1365	3868	3869
39	1366	1367	3870	3871
40	1368	1369	3872	3873
41	1370	1371	3874	3875
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1076	3648	3649	6152	6153
1077	3652	3653	6156	6157
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1081	3660	3661	6164	6165
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1176	1870	1871	4374	4375
1177	1880	1881	4384	4385
1178	1882	1883	4386	4387
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	1932	1933	4436	4437
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1277	6346	6347	6422	6423
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TABLE 5

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1314	F	10997	3034	F	848293		4754	В	465288
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+	1340	\dagger	F	\vdash	29202	1	t
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-	1342	\dagger	F	\dagger	29793	1	İ
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ł	1345	\dagger	F	\dagger	29639	٦	
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ŀ	1347	+	F	\dagger	30050		
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	1355		F		35741		1
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	1357		Ī	7	37236		1
	1358		1	7.	38939		1
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	L				1		_

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	3053	7	F		856492		Γ
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	3057		F		858116		
_	3058	T	F		860941	1	
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r	3060	T	F	T	861464		
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r	3064	†	F	1	864599	1	
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ļ	3067	1	F	1	863040	٦	
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İ	3071		F	7	864889		
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	3073		F		865664		
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	3075		F		866513	_	
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	3077	_	F	:	867898	_	
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1918	F	304350	3638	F	1156630	5358	В	762077
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1956	F	322084	3676	F	1174885	5396	В	778224
1957	F	320217	3677	F	1172999	5397	В	780087
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2016	F	354224
2017	F	352312
2018	F	354781
2019	F	352871
2020	F	355223
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2024	F	358901
		

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5430	В	795066
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2026	F	356594	3746	F	1205864	5466	В	810192
2027	F	354692	3747	F	1203964	5467	В	812105
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2037	F	362246	3757	F	1208584	5477	В	817168
. 2038	F	364567	3758	F	1211618	5478	В	815995
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2040	F	365039	3760	F	1212523	5480	В	817264
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2058	F	373939	3778	F	1220403	5498	В	825876
2059	F	372017	3779	F	1218475	5499	В	827737
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2091	F	388732	3811	В	11095	5531	В	846153
2092	F	391612	3812	В	10261	5532	В	845319
2093	F	389763	3813	В	12119	5533	В	847139
2094	F	392346	3814	В	10982	5534	В	846411
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2095	F	390463	. 3815	В	12839	5535	В	848300
2096	F	392540	3816	В	11463	5536	В	848760
2097	F	390639	3817	В	13355	5537	В	850653
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2103	F	392782	3823	В	19400	5543	В	853690
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2106	F	395705	3826	В	21128	5546	В	853938
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_ 2108	F	397607	3828	В	22265	5548	В	855338
2109	F	395705	3829	В	24185	5549	В	857240
2110	F	398807	3830	В	23701	5550	В	855982
2111	F	396957	3831	В	25599	5551	В	857873
2112	F	399848	3832	В	26350	5552	В	856786
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2123	F	402206	3843	В	31642	5563	В	863558
2124	F	405765	3844	В	30253	5564	В	863171
2125	F	403865	3845	В	32158	5565	В	865099
2126	F	407131	3846	В	31775	5566	В	865021
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2128	F	407456	3848	В	32511	5568	В	865497
2129	F	405563	3849	В	34422	5569	В	867408
t		<u> </u>			L	L	ــــــــــــــــــــــــــــــــــــــ	

								
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2132	F	410478	3852	В	34765	5572	В	867342
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2160	F	424008	3880	В	49180	5600	В	883542
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2162	F	424585	3882	В	50231	5602	В	883777
2163	F	422711	3883	В	52149	5603	В	885689
2164	F	426021	3884	В	51697	5604	В	884430
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2165	F	424107	3885	В	53619	5605	В	886335
2166	F	427407	3886	В	52917	5606	В	885834
2167	F	425513	3887	В	54735	5607	В	887782
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_ 2178	F	432609	3898	В	57489	5618	В	891428
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2187	F	435057	3907	В	63633	5627	В	895056
2188	F	439741	3908	В	62699	5628	В	893347
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2196	F	440989	3916	В	64834	5636	В	897802
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2198	F	442121	3918	В	65705	5638	В	899665
2199	F	440252	3919	В	67611	5639	В	901565
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2202	F	442780
2203	F	440879
2204	F	443285
2205	F	441384
2206	F	444276
2207	F	442406
2208	F	444472
2209	F	442568
2210	F	444960
2211	F	443040
2212	F	445556
2213	F	443681
2214	F	447565
2215	F	445676
2216	F	448396
2217	F	446496
2218	F	450057
2219	F	448133
2220	F	450444
2221	F	448555
2222	F	450988
2223	F	449054
2224	F	452212
2225	F	450329
2226	F	453450
2227	F	451581
2228	F	454643
2229	F	452718
2230	F	456004
2231	F	454124
2232	F	456785
2233	F	454897
2234	F	457749

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3921	В	68163
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2395	F	536211	4115	В	174706	5835	В	994621
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2404	F	542650	4124	В	177158	5844	В	996203
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2443	F	566609	4163	В	197932	5883	В	1018708
2444	F	569194	4164	В	196298	5884	В	1017022
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2445	F	567291	. 4165	В	198245	5885	В	1018924
2446	F	570873	4166	В	198296	5886	В	1019233
2447	F	568996	4167	В	200200	5887	В	1021143
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2479	F	582828	4199	В	218284	5919	В	1039802
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2482	F	586579	4202	В	217507	5922	В	1039198
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2587 F 636682 2588 F 638836 2589 F 636938 2590 F 636933 2591 F 637471 2592 F 640506 2593 F 638598 2594 F 640730 2595 F 638885 2596 F 641468 2597 F 639550 2598 F 642029 2599 F 640162 2600 F 642785 2601 F 643129 2602 F 643129 2603 F 641229 2604 F 643440 2605 F 641522 2606 F 645316 2607 F 643613 2610 F 645552 2609 F 643613 2610 F 646773 2613 <td>2585</td> <td>F</td> <td>636114</td>	2585	F	636114				
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2589 F 636938 2590 F 639333 2591 F 637471 2592 F 640506 2593 F 638598 2594 F 640730 2595 F 638885 2596 F 641468 2597 F 639550 2598 F 642029 2599 F 640162 2600 F 642785 2601 F 64954 2602 F 643129 2603 F 641229 2604 F 643440 2605 F 645316 2605 F 645316 2607 F 643376 2608 F 645552 2609 F 643613 2610 F 646025 2611 F 646773 2613 F 6447678 2615 <td>2587</td> <td>F</td> <td>636682</td>	2587	F	636682				
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2595 F 638885 2596 F 641468 2597 F 639550 2598 F 642029 2599 F 640162 2600 F 642785 2601 F 640954 2602 F 643129 2603 F 641229 2604 F 643440 2605 F 645316 2606 F 645316 2607 F 643376 2608 F 645552 2609 F 643613 2610 F 646025 2611 F 646773 2612 F 646773 2613 F 645712 2615 F 648128 2617 F 646249	2593	F	638598				
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2600 F 642785 2601 F 640954 2602 F 643129 2603 F 641229 2604 F 643440 2605 F 64522 2606 F 645316 2607 F 643376 2608 F 645552 2609 F 643613 2610 F 646025 2611 F 644773 2612 F 646773 2613 F 647678 2615 F 645712 2616 F 646249	2598	F	642029				
2601 F 640954 2602 F 643129 2603 F 641229 2604 F 643440 2605 F 643516 2606 F 645316 2607 F 643376 2608 F 645552 2609 F 643613 2610 F 646025 2611 F 64478 2612 F 646773 2613 F 647678 2615 F 645712 2616 F 646249	2599	F	640162				
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				В	423186	6380	В	67456
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TABLE 6

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6843	F	830576

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WHAT IS CLAIMED IS:

1- An isolated poly genome, comprising	nucleot	ide having a nucleotide sequence of a Chlamydia pneumoniae
	(a)	the a nucleotide sequence of SEQ ID No. 1;
	(b)	the nucleotide sequence contained within the Chlamydia
	(-)	pneumoniae genomic DNA in ATCC Deposit No;
	(c)	the nucleotide sequence contained in a clone insert in ATCO Deposit No;
	(d)	a nucleotide sequence exhibiting at least 99.9% identity with the sequence of SEQ ID No. 1; or
	(e)	
	(0)	a nucleotide sequence exhibiting at least 80% homology to SEQ ID No. 1.
pneumoniae genomic	DNA	ide which hybridizes to SEQ ID No. 1 or to the <i>Chlamydia</i> contained in ATCC deposit No or to a clone insert in under conditions of high stringency.
pneumoniae genomic	DNA	de which hybridizes to SEQ ID No. 1 or to the <i>Chlamydia</i> contained in ATCC deposit No under conditions of
4- An isolated polynor of a Chlamydia pneur	icleotid	e having a nucleotide sequence of an open reading frame (ORF)
	(a)	a nucleotide sequence chosen from one of ORF2 to ORF 1297;
	(b)	a nucleotide sequence exhibiting at least 99.9% identity with one of ORF2 to ORF 1297; or
	(c)	a nucleotide sequence exhibiting at least 80% homology to one of ORF2 to ORF 1297.
		01 Old 2 to Old 1237.
5- An isolated poly conditions of high stri	nucleot ngency	ide which hybridizes to one of ORF2 to ORF 1297 under
conditions of high stri	ngency nucleot	de which hybridizes to one of ORF2 to ORF 1297 under
6- An isolated polyconditions of intermed	ngency nucleot liate str	de which hybridizes to one of ORF2 to ORF 1297 under
	2- An isolated polynpneumoniae genomic ATCC Deposit No 3- An isolated polynpneumoniae genomic intermediate stringend 4- An isolated polynu	(b) (c) (d) (e) 2- An isolated polynucleotic pneumoniae genomic DNA of ATCC Deposit No 3- An isolated polynucleotic pneumoniae genomic DNA intermediate stringency. 4- An isolated polynucleotid of a Chlamydia pneumoniae (a) (b)

279 (b) a Chlamydia pneumoniae transmembrane polypeptide having between 4 and 6 transmembrane domains; (c) a Chlamydia pneumoniae transmembrane polypeptide having at least 7 transmembrane domains; 5 (d) a Chlamydia pneumoniae polypeptide involved in intermediate metabolism of sugars and/or cofactors; a Chlamydia pneumoniae polypeptide involved in intermediate (e) metabolism of nucleotides or nucleic acids; a Chlamydia pneumoniae polypeptide involved in metabolism (f) 10 of amino acids or polypeptides; (g) a Chlamydia pneumoniae polypeptide having involved in metabolism of fatty acids; (h) a Chlamydia pneumoniae polypeptide involved in the synthesis of the cell wall: 15 (i) a Chlamydia pneumoniae polypeptide involved in transcription, translation, and/or maturation process; (j) a Chlamydia pneumoniae transport polypeptide; (k) a Chlamydia pneumoniae polypeptide involved in the virulence process; 20 (1) a Chlamydia pneumoniae polypeptide involved in the secretory system and/or which is secreted; (m) a Chlamydia pneumoniae polypeptide of the cellular envelope or outer cellular envelope of Chlamydia pneumoniae. (n) a Chlamydia pneumoniae surface exposed polypeptide; 25 (o) a Chlamydia pneumoniae lipoprotein; (p) Chlamydia pneumoniae polypeptide involved in lipopolysaccharide biosynthesis; (q) a Chlamydia pneumoniae KDO-related polypeptide; (r) Chlamydia pneumoniae phosphomannomutase-related 30 polypeptide; (s) Chlamydia pneumoniae lipid component-related polypeptide; (t) Chlamydia pneumoniae phosphoglucomutase-related polypeptide; 35 a Chlamydia pneumoniae polypeptide that contains an RGD (u) sequence; a Chlamydia pneumoniae Type III secreted polypeptide; (v)

(w)

polypeptide; or

Chlamydia pneumoniae cell wall anchored surface

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- (x) a Chlamydia pneumoniae polypeptide that is not found in Chlamydia trachomatis.
- 8- A polynucleotide encoding a fusion protein, comprising one of ORF2 to ORF1297 of
 5 Claim 4, 5, or 6 ligated in frame to a polynucleotide encoding a heterologous polypeptide.
 - 9- A recombinant vector that contains the polynucleotide of Claim 1, 2, 3, 4, 5 or 6.
 - 10- A recombinant vector that contains the polynucleotide of Claim 8.
 - 11- A recombinant vector that contains the polynucleotide of Claim 4, 5 or 6, operatively associated with a regulatory sequence that controls gene expression.
- 12- A recombinant vector that contains the polynucleotide of Claim 8 operatively associated with a regulatory sequence that controls gene expression.
 - 13- A genetically engineered host cell that contains the polynucleotide of Claim 1, 2, 3, 4, 5 or 6.
- 20 14- A genetically engineered host cell that contains the polynucleotide of Claim 8.
 - 15- A genetically engineered host cell that contains the polynucleotide of Claim 4, 5 or 6 operatively associated with a regulatory sequence that controls gene expression in the host cell.
 - 16- A genetically engineered host cell that contains the polynucleotide of Claim 8 operatively associated with a regulatory sequence that controls gene expression in the host cell.
 - 17- A method for producing a polypeptide, comprising:
 - (a) culturing the genetically engineered host cell of Claim 15 under conditions suitable to produce the polypeptide encoded by the polynucleotide; and
 - (b) recovering the polypeptide from the culture.
- 35 18- A method for producing a fusion protein, comprising:
 - (a) culturing the genetically engineered host cell of Claim 16 under conditions suitable to produce the fusion protein encoded by the polynucleotide; and
 - (b) recovering the fusion protein from the culture.

- 19- A polypeptide encoded by the polynucleotide of Claim 4, 5 or 6.
- 20- The polypeptide of Claim 19 which immunoreacts with seropositive serum of an 5 individual infected with *Chlamydia pneumoniae*.
 - 21- The polypeptide of Claim 19 which comprises the following polypeptides or fragments thereof:
 - (a) a Chlamydia pneumoniae transmembrane polypeptide having between 1 and 3 transmembrane domains;
 - (b) a Chlamydia pneumoniae transmembrane polypeptide having between 4 and 6 transmembrane domains;
 - (c) a *Chlamydia pneumoniae* transmembrane polypeptide having at least 7 transmembrane domains;
 - (d) a Chlamydia pneumoniae polypeptide involved in intermediate metabolism of sugars and/or cofactors;
 - (e) a Chlamydia pneumoniae polypeptide involved in intermediate metabolism of nucleotides or nucleic acids;
 - a Chlamydia pneumoniae polypeptide involved in metabolism of amino acids or polypeptides;
 - a Chlamydia pneumoniae polypeptide involved in metabolism of fatty acids;
 - (h) a Chlamydia pneumoniae polypeptide involved in the synthesis of the cell wall;
 - (i) a Chlamydia pneumoniae polypeptide involved in transcription, translation, and/or maturation process;
 - (j) a Chlamydia pneumoniae transport polypeptide;
 - (k) a Chlamydia pneumoniae polypeptide involved in the virulence process;
 - (l) a Chlamydia pneumoniae polypeptide involved in the secretory system and/or which is secreted;
 - (m) a Chlamydia pneumoniae polypeptide of the cellular envelope or outer cellular envelope of Chlamydia pneumoniae.
 - (n) a Chlamydia pneumoniae surface exposed polypeptide;
 - (o) a Chlamydia pneumoniae lipoprotein;
 - (p) a *Chlamydia pneumoniae* polypeptide involved in lipopolysaccharide biosynthesis;
 - (q) a Chlamydia pneumoniae KDO-related polypeptide;

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- **(r)** Chlamydia pneumoniae phosphomannomutase-related polypeptide; **(**s) Chlamydia pneumoniae phosphoglucomutase-related polypeptide; 5 (t) Chlamydia pneumoniae lipid component-related polypeptide; a Chlamydia pneumoniae polypeptide that contains an RGD (u) sequence; a Chlamydia pneumoniae Type III secreted polypeptide; (v) 10 a Chlamydia pneumoniae cell wall anchored surface (w) polypeptide; or a Chlamydia pneumoniae polypeptide that is not found in (x)
- 15 22- A fusion protein encoded by the polynucleotide of Claim 8.
 - 23- The fusion protein of Claim 22 which immunoreacts with seropositive serum of an individual infected with *Chlamydia pneumoniae*.

Chlamydia trachomatis.

- 20 24- An antibody that immunospecifically binds to the polypeptide of Claim 19.
 - 25- An antibody that immunospecifically binds to the fusion protein of Claim 22.
- 26- A method for the detection and/or identification of *Chlamydia pneumoniae* in a biological sample, comprising:
 - (a) contacting the sample with a polynucleotide primer of Claim 1,
 2, 3, 4, 5, or 6 in the presence of a polymerase enzyme and nucleotides under conditions which permit primer extension;
 and
 - (b) detecting the presence of primer extension products in the sample in which the detection of primer extension products indicates the presence of *Chlamydia pneumoniae* in the sample.
- 27- A method for the detection and/or identification of *Chlamydia pneumoniae* in a biological sample, comprising:
 - (a) contacting the sample with a polynucleotide probe of Claim 1,
 2, 3, 4, 5, or 6 under conditions which permit hybridization of complementary base pairs; and

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- (b) detecting the presence of hybridization complexes in the sample in which the detection of hybridization complexes indicates the presence of *Chlamydia pneumoniae* in the sample.
- 5 28- A method for the detection and/or identification of *Chlamydia pneumoniae* in a biological sample, comprising:
 - (a) contacting the sample with the antibody of Claim 24 under conditions suitable for the formation of immune complexes; and
 - (b) detecting the presence of immune complexes in the sample, in which the detection of immune complexes indicates the presence of *Chlamydia pneumoniae* in the sample.
 - 29- A method for the detection and/or identification of antibodies to *Chlamydia pneumoniae* in a biological sample, comprising:
 - (a) contacting the sample with a polypeptide of Claim 19 under conditions suitable for the formation of immune complexes; and
 - (b) detecting the presence of immune complexes in the sample, in which the detection of immune complexes indicates the presence of *Chlamydia pneumoniae* in the sample.
 - 30- A DNA chip containing an array of polynucleotides comprising at least one of the polynucleotides of Claim 1, 2, 3, 4, 5, or 6.
- 31- A protein chip containing an array of polypeptides comprising at least one of the polypeptides of Claim 19.
 - 32- An immunogenic composition comprising the polypeptide of Claim 19 and a pharmaceutically acceptable carrier.
- 30 33- An immunogeneic composition comprising the polypeptide of Claim 20 and a pharmaceutically acceptable carrier.
 - 34- An immunogenic composition comprising the fusion protein of Claim 22 and a pharmaceutically acceptable carrier.
 - 35- An immunogenic composition comprising the fusion protein of Claim 23 and a pharmaceutically acceptable carrier.

- 36- A pharmaceutical composition comprising the polypeptide of Claim 19 and a pharmaceutically acceptable carrier.
- 37- A pharmaceutical composition comprising the polypeptide of Claim 20 and a 5 pharmaceutically acceptable carrier.
 - 38- A pharmaceutical composition comprising the polypeptide of Claim 22 and a pharmaceutically acceptable carrier.
- 10 39- A pharmaceutical composition comprising the polypeptide of Claim 23 and a pharmaceutically acceptable carrier.
 - 40- A method of immunizing against *Chlamydia pneumoniae*, comprising: administering to a host an immunizing amount of the immunogenic composition of Claim 32.
 - 41- A method of immunizing against *Chlamydia pneumoniae*, comprising: administering to a host an immunizing amount of the immunogenic composition of Claim 33.
- 42- A method of immunizing against *Chlamydia pneumoniae*, comprising administering to a host an immunizing amount of the immunogenic composition of Claim 34.
 - 43- A method of immunizing against *Chlamydia pneumoniae*, comprising: administering to a host an immunizing amount of the immunogenic composition of Claim 35.
- 25 44- A DNA immunogenic composition comprising the expression vector of Claim 11.
 - 45- The DNA composition of Claim 44, wherein the DNA composition directs the expression of a neutralizing epitope of *Chlamydia pneumoniae*.
- 30 46- A DNA immunogenic composition comprising the expression vector of Claim 12.
 - 47- The DNA composition of Claim 46, wherein the DNA composition directs the expression of a neutralizing epitope of *Chlamydia pneumoniae*.
- 35 48- A screening assay, comprising:
 - (a) contacting a test compound with an isolated polynucleotide of Claim 1, 2, 3, 4, 5 or 6; and
 - (b) detecting whether binding occurs.

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- 49- A screening assay, comprising:
 - (a) contacting a test compound with the polypeptide of Claim19; and
 - (b) detecting whether binding occurs.

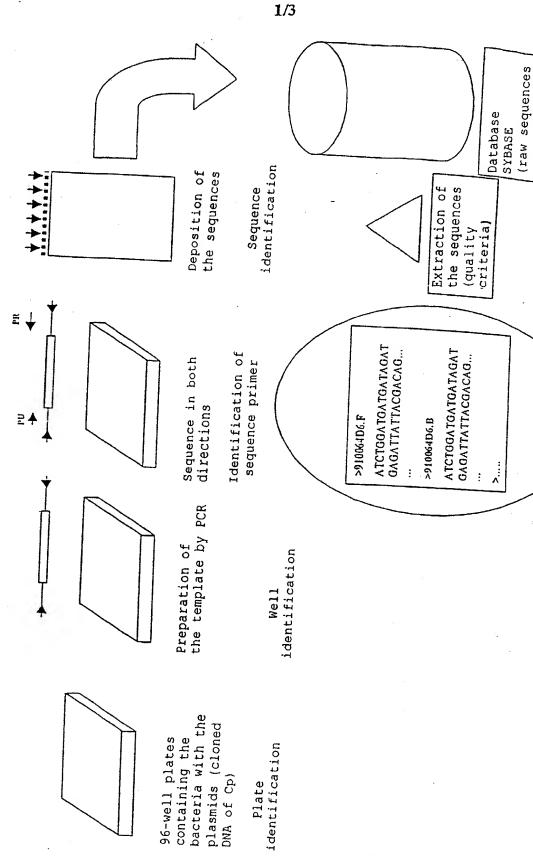
- 50- A screening assay, comprising:
 - (a) contacting a test compound with the polypeptide of Claim 22; and
 - (b) detecting whether binding occurs.
- 10 51- A kit comprising a container containing an isolated polynucleotide of Claim 1, 2, 3, 4, 5 or 6.
 - 52- The kit of Claim 51 wherein the polynucleotide is a primer or a probe.
- 15 53- The kit of Claim 51 wherein the polynucleotide is a primer and the kit further comprises a container containing a polymerase.
 - 54- The kit of Claim 51 which further comprises a container containing deoxynucleotide triphosphates.

- 55- A kit comprising a container containing an antibody that immunospecifically binds to the polypeptide of Claim 19.
- 56- A kit comprising a container containing an antibody that immunospecifically binds to the fusion protein of Claim 22.

identification)

information + + quality





DNA of Cp)

Plate

Figure 1.

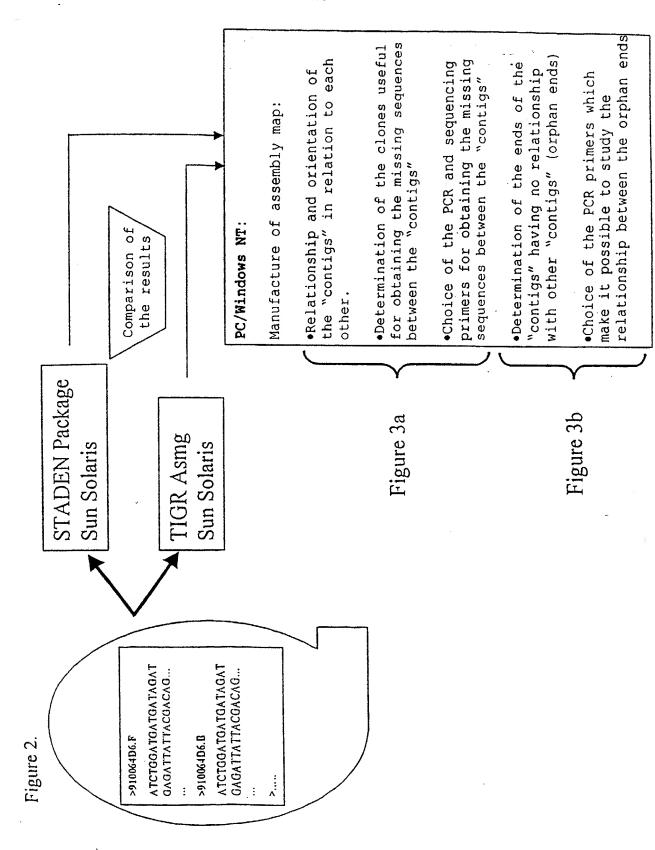
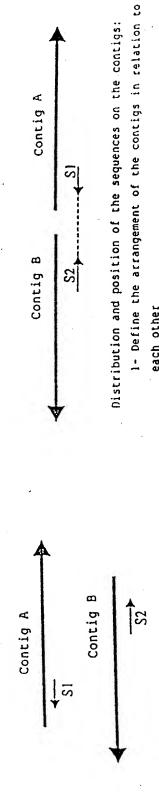


FIGURE 3A



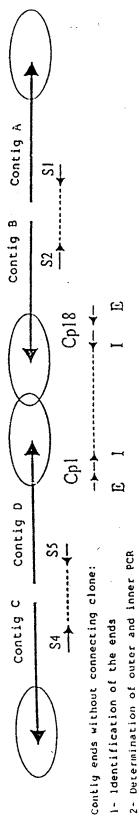
each other 2- Define the PCR primers which make it possible to fill the sequence

2- Situated on two different contigs

Statistical determination of the sequences:

1- Belonging to the same clone

FIGURE 3B



between the contigs E: outer primers I: inner primers

primers for studying the relationships

SEQUENCE LISTING

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